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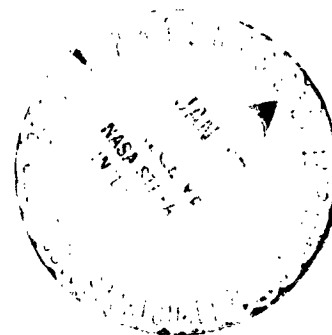
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NASA-CR-128754-vol-4) RESULTS OF TESTS
CA12 AND IAS IN THE AMES RESEARCH CENTER
UNITARY PLAN WIND TUNNELS ON AN
0.030-SCALE MODEL OF THE SPACE (Chrysler
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SPACE SHUTTLE

AEROTHERMODYNAMIC DATA REPORT



JOHNSON SPACE CENTER

HOUSTON, TEXAS

DATA MANAGEMENT services

SPACE DIVISION



CHRYSLER
CORPORATION

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RESULTS OF TESTS OA12 AND IA9 IN THE
AMES RESEARCH CENTER UNITARY PLAN WIND TUNNELS
ON AN 0.030-SCALE MODEL OF THE SPACE SHUTTLE
VEHICLE 2A TO DETERMINE AERODYNAMIC LOADS

By

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Prepared under NASA Contract Number NAS9-13247

By

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Johnson Space Center
National Aeronautics and Space Administration
Houston, Texas

WT-3 TUNNEL TEST SPECIFICS:

Test Numbers: ARC 11-707 (A)
ARC 97-707 (B)
ARC 87-707 (C)
NASA Series Numbers: IA9A, B, C and
OA12A, C
Test Date: 2 April - 17 May, 1973

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RESULTS OF TESTS OAL2 AND IA9 IN THE
AMES RESEARCH CENTER UNITARY PLAN WIND TUNNELS
ON AN 0.030-SCALE MODEL OF THE SPACE SHUTTLE
VEHICLE 2A TO DETERMINE AERODYNAMIC LOADS

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ABSTRACT

Tests were conducted in the NASA/ARC Unitary Plan Wind Tunnels during April and May 1973, on an 0.030-scale replica of the Space Shuttle Vehicle Configuration 2A. Aerodynamic loads data were obtained at Mach numbers from 0.6 to 3.5.

The investigation included Tests IA9A, B and C on the integrated (launch) configuration and Tests OAL2A and C on the isolated orbiter (entry configuration). The integrated vehicle was tested at angles of attack and sideslip from -8 degrees to +8 degrees. The isolated orbiter was tested at angles of attack from -15 degrees to +40 degrees and angles of sideslip from -10 degrees to +10 degrees as dictated by trajectory considerations. The effects of orbiter/external tank incidence angle and deflected control surfaces on aerodynamic loads were also investigated.

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<u>VOLUME 4</u>							
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		0.5	A	0	0		25-54
		-1.2	A	0	0		55-78
		0.5	-8	E	0	<u>PHI, MACH, BETA</u>	79-102
		0.5	-4	E	0		103-126
		0.5	0	E	0		127-156
		0.5	4	E	0		157-180
		0.5	8	E	0		181-204
		0.5	0	E	-5		205-216
		0.5	0	E	-10		217-228
Longitudinal Distribution of External Tank Pressures	<u>CP vs X/LT</u>	0.5	0	E	-15		229-240
		1.5	A	0	0	<u>PHI, MACH, ALPHA</u>	241-264
		0.5	A	0	0		265-294
		-1.2	A	0	0		295-318

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TITLE	TYPE OF PLOT	PARAMETERS i_o α β δ_R	CONDITIONS VARYING	PAGES
Longitudinal Distribution of External Tank Pressures	CP vs X/LT	0.5 -8 E 0	PHI, MACH, BETA	319-342
		0.5 -4 E 0		343-366
		0.5 0 E 0		367-396
		0.5 4 E 0		397-420
		0.5 8 E 0		421-444
Longitudinal Distribution of SRM Booster Pressures	CP vs X/IS	1.5 A 0 0	PHI, MACH, ALPHA	445-460
		0.5 A 0 0		461-480
		-1.2 A 0 0		481-496
		0.5 -8 E 0	PHI, MACH, BETA	497-512
		0.5 -4 E 0		513-528
		0.5 0 E 0		529-548
		0.5 4 E 0		549-562
		0.5 8 E 0		563-580
Chordwise Distribution of Upper and Lower Surface Wing Pressures	CP vs X/CW	1.5 A 0 0	Y/BW, MACH, ALPHA	581-596
		0.5 A 0 0		597-616
		-1.2 A 0 0		617-632
		0.5 -8 E 0	Y/BW, MACH, BETA	633-648

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TITLE	TYPE OF PLOT	PARAMETERS i_0 α β δR	CONDITIONS VARYING	PAGES
Chordwise Distribution of Upper and Lower Surface Wing Pressures	CP vs X/CW	0.5 -4 E 0	Y/BV, MACH, BETA	649-664
		0.5 0 E 0		665-684
		0.5 4 E 0		685-700
		0.5 8 E 0		701-716
Chordwise Distribution of Left and Right Surface Vertical Tail Pressures	CP vs X/CV	0.5 A 0 0	Z/BV, MACH, ALPHA	717-736
		0.5 -8 E 0	Z/BV, MACH, BETA	737-752
		0.5 -4 E 0		753-768
		0.5 0 E 0		769-788
		0.5 4 E 0		789-804
		0.5 8 E 0		805-820
		0.5 -8 E -5		821-838
		0.5 0 E -5		839-856
		0.5 8 E -5		857-874
		0.5 -8 E -10		875-892
		0.5 0 E -10		893-910
		0.5 8 E -10		911-928
		0.5 -8 E -15		929-946

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TITLE	TYPE OF PLOT	PARAMETERS i o α β δ R	CONDITIONS VARYING	PAGES
Chordwise Distribution of Left and Right Surface Vertical Tail Pressures	CP vs X/CV ↓	0.5 0 E -15 0.5 8 E -15	Z/BV, MACH, BETA Z/BV, MACH, BETA	877-884 885-892
Orbiter Base Pressures	CP vs ALPHA	0.5 B 0 0	MACH, ALPHA	893-901
Orbiter Base Pressures	CP vs BETA	0.5 0 F 0	MACH, BETA	903-912
Upper MPS Nozzle Pressures	CP vs ALPHA	0.5 B 0 0	PHI, MACH, X/LNP	913-917
Upper MPS Nozzle Pressures	CP vs BETA	0.5 0 F 0	PHI, MACH, X LNP	918-922
OMS Nozzle Pressures	CP vs ALPHA	0.5 B 0 0	PHI, MACH X/LNM	923-927
OMS Nozzle Pressures	CP vs BETA	0.5 0 F 0	PHI, MACH X/LNM	928-932
SRM Booster Base Pressures	CP vs ALPHA	0.5 B 0 0	PHI, MACH, X/LS	933-937
SRM Booster Base Pressures	CP vs BETA	0.5 0 F 0	PHI, MACH, X/LS	938-942
External Tank Base Pressures	CP vs ALPHA	0.5 B 0 0	PHI, MACH, X/LE	943-947
External Tank Base Pressures	CP vs BETA	0.5 0 F 0	PHI, MACH, X/LE	948-952
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Longitudinal Distribution of Orbiter Fuselage Pressures	CP vs X/LB ↓	0.5 A 0 0 0.5 8 I 0 0.5 4 I 0	PHI, MACH, ALPHA PHI, MACH, BETA ↓	1-12 13-24 25-36

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TITLE	TYPE OF PLOT	PARAMETERS α β δR	CONDITIONS VARYING	PAGES
Longitudinal Distribution of Orbiter Fuselage Pressures	CP vs X/LB	0.5 0 I 0	PHI, MACH, BETA	37-45
		0.5 -4 I 0		49-60
		0.5 -8 I 0		61-72
		0.5 0 E -15		73-84
		0.5 0 E -10		85-96
		0.5 0 E 15		97-108
Longitudinal Distribution of External Tank Pressures	CP vs X/LT	0.5 A 0 0	PHI, MACH, ALPHA	109-120
		0.5 8 I 0	PHI, MACH, BETA	121-132
		0.5 4 I 0		133-144
		0.5 0 I 0		145-156
		0.5 -4 I 0		157-168
		0.5 -8 I 0		169-180
Longitudinal Distribution of SRM Booster Pressures	CP vs X/LS	0.5 A 0 0	PHI, MACH, ALPHA	181-192
		0.5 8 I 0	PHI, MACH, ALPHA	193-204
		0.5 4 I 0	PHI, MACH, BETA	205-216
		0.5 0 I 0	PHI, MACH, BETA	217-228

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TITLE	TYPE OF PLOT	PARAMETERS i_0 α β ϕ_R	CONDITIONS VARYING	PAGES
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		0.5 -8 I 0	PHI, MACH, BETA	221-228
Chordwise Distribution of Upper and Lower Surface Wing Pressures	CP vs X/CW ↓	0.5 A 0 0	Y/BW, MACH, ALPHA	229-236
		0.5 8 I 0	Y/BW, MACH, BETA	237-244
		0.5 4 I 0		245-252
		0.5 0 I 0		253-260
		0.5 -4 I 0		261-268
		0.5 -8 I 0		269-276
Chordwise Distribution of Left and Right Surface Vertical Tail Pressures	CP vs X/CV ↓	0.5 A 0 0	Z/BV, MACH, ALPHA	277-284
		0.5 8 I 0	Z/BV, MACH, BETA	285-292
		0.5 4 I 0		293-300
		0.5 0 I 0		301-308
		0.5 -4 I 0		309-316
		0.5 -8 I 0		317-324
		0.5 -8 E -15		325-332
		0.5 0 E -15		333-340

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TITLE	TYPE OF PLOT	PARAMETERS				CONDITIONS VARYING	PAGES
		i_o	α	β	ϕ_R		
Chordwise Distribution of Left and Right Surface Vertical Tail Pressures	CP vs X/CV	0.5	8	E	-15	Z/BV, MACH, BETA	341-348
		0.5	-8	E	-10		349-356
		0.5	0	E	-10		357-364
		0.5	8	E	-10		365-372
		0.5	-8	E	15		373-380
		0.5	0	E	15		381-388
		0.5	8	E	15		389-396
		0.5	B	0	0	MACH, ALPHA	397-400
Orbiter Base Pressures	CP vs ALPHA	0.5	B	0	0	MACH, ALPHA	397-400
Orbiter Base Pressures	CP vs BETA	0.5	0	G	0	MACH, BETA	401-404
Upper MPS Nozzle Pressures	CP vs ALPHA	0.5	B	0	0	PHI, MACH, X/LNP	405-406
Upper MPS Nozzle Pressures	CP vs BETA	0.5	0	G	0	PHI, MACH, X/LNP	407-408
OMS Nozzle Pressures	CP vs ALPHA	0.5	B	0	0	PHI, MACH, X/LNM	409-410
OMS Nozzle Pressures	CP vs BETA	0.5	0	G	0	PHI, MACH, X/LNM	411-412
SRM Booster Base Pressures	CP vs ALPHA	0.5	B	0	0	PHI, MACH, X/LS	413-414
SRM Booster Base Pressures	CP vs BETA	0.5	0	G	0	PHI, MACH, X/LS	415-416
External Tank Base Pressures	CP vs ALPHA	0.5	B	0	0	PHI, MACH, X/LT	417-418
External Tank Base Pressures	CP vs BETA	0.5	0	G	0	PHI, MACH, X/LT	419-420

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TITLE	TYPE OF PLOT	PARAMETERS				CONDITIONS VARYING	PAGES
		i_o	α	β	ϕ_R		
<u>Test IA9C</u>							
Longitudinal Distribution of Orbiter Fuselage Pressures	<u>CP vs X/LB</u>	0.5	A	0	0	PHI, MACH, ALPHA	421-438
		0.5	-8	E	0	PHI, MACH, BETA	439-456
		0.5	-4	E	0		457-474
		0.5	0	E	0		475-492
		0.5	4	E	0		493-510
		0.5	8	E	0		511-528
		0.5	0	E	-15		529-546
		0.5	0	E	-10		547-564
Longitudinal Distribution of External Tank Pressures	<u>CP vs X/LT</u>	0.5	A	0	0	PHI, MACH, ALPHA	565-582
		0.5	-8	E	0	PHI, MACH, BETA	583-600
		0.5	-4	E	0		601-618
		0.5	0	E	0		619-636
		0.5	4	E	0		637-654
		0.5	8	E	0		655-672

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Longitudinal Distribution of SRM Booster Pressures	CP vs X/LS	0.5 A 0 0	PHI, MACH, ALPHA	673-684
		0.5 -8 E 0	PHI, MACH, BETA	685-696
		0.5 -4 E 0		697-708
		0.5 0 E 0		709-720
		0.5 4 E 0		721-732
		0.5 8 E 0		733-744
Chordwise Distribution of Upper and Lower Surface Wing Pressures	CP vs X/CW	0.5 A 0 0	Y/BW, MACH, ALPHA	745-756
		0.5 -8 E 0	Y/BW, MACH, BETA	757-767
		0.5 -4 E 0		768-780
		0.5 0 E 0		781-792
		0.5 4 E 0		793-804
		0.5 8 E 0		805-816
Chordwise Distribution of Left and Right Surface Vertical Tail Pressures	CP vs X/CV	0.5 A 0 0	Z/BV, MACH, ALPHA	817-828
		0.5 -8 E 0	Z/BV, MACH, BETA	829-840
		0.5 -4 E 0		841-852
		0.5 0 E 0		853-864
		0.5 4 E 0		865-876

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TITLE	TYPE OF PLOT	PARAMETERS i_0 α β ϕ_R	CONDITIONS VARYING	PAGES
Chordwise Distribution of Left and Right Surface Vertical Tail Pressures	CP vs X/CV	0.5 8 E 0	Z/BV, MACH, BETA	877-888
		0.5 -8 E -15		889-900
		0.5 0 E -15		901-912
		0.5 8 E -15		913-924
		0.5 -8 E -10		925-936
		0.5 0 E -10		937-948
		0.5 8 E -10		949-960
Orbiter Base Pressures	CP vs ALPHA	0.5 B 0 0	MACH, ALPHA	961-966
Orbiter Base Pressures	CP vs BETA	0.5 0 H 0	MACH, BETA	967-972
Upper MPS Nozzle Pressures	CP vs ALPHA	0.5 B 0 0	PHI, MACH, X/LNP	973-975
Upper MPS Nozzle Pressures	CP vs BETA	0.5 0 H 0	PHI, MACH, X/LNP	976-978
OMS Nozzle Pressures	CP vs ALPHA	0.5 B 0 0	PHI, MACH, X/LNM	979-981
OMS Nozzle Pressures	CP vs BETA	0.5 0 H 0	PHI, MACH, X/LNM	982-984
SRM Booster Base Pressures	CP vs ALPHA	0.5 B 0 0	PHI, MACH, X/LS	985-987
SRM Booster Base Pressures	CP vs BETA	0.5 0 H 0	PHI, MACH, X/LS	988-990
External Tank Base Pressures	CP vs ALPHA	0.5 B 0 0	PHI, MACH, X/LT	991-993
External Tank Base Pressures	CP vs BETA	0.5 0 H 0	PHI, MACH, X/LT	994-996

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TITLE	TYPE OF PLOT	PARAMETERS					CONDITIONS VARYING	PAGES
		α	β	δ_e	δ_R	δ_{RF}		
VOLUME 6								
Test OAL2A								
Longitudinal Distribution of Orbiter Fuselage Pressure	CP vs X/LB	C	O	O	O	O	PHI, MACH, ALPHA	1-24
		O	J	O	O	O	PHI, MACH, BETA	25-36
		10	J	O	O	O		37-48
		20	J	O	O	O		49-60
		O	K	O	-10	O		61-78
		O	K	O	-20	O		79-96
		O	L	10	O	O		97-108
		O	K	-10	O	O		109-126
		O	K	-20	O	O		127-144
		O	K	O	O	40		145-162
Chordwise Distribution of Upper and Lower Surface Wing Pressures	CP vs X/CW	C	O	O	O	O	Y/BW, MACH, ALPHA	163-178
		O	J	O	O	O	Y/BW, MACH, BETA	179-186
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		20	J	O	O	O		195-202
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TITLE	TYPE OF PLOT	PARAMETERS α β δ_e δ_R δ_{RF}	CONDITIONS VARYING	PAGES
Chordwise Distribution of Upper and Lower Surface Wing Pressures	CP vs X/CW	10 L 10 0 0 0	Y/BW, MACH, BETA	211-218
		20 L 10 0 0 0		219-226
		0 K -10 0 0 0		227-238
		10 K -10 0 0 0		239-250
		20 K -10 0 0 0		251-262
		0 K -20 0 0 0		263-274
		10 K -20 0 0 0		275-286
		20 K -20 0 0 0		287-298
		C 0 0 0 0 0		299-314
		0 J 0 0 0 0		315-322
Chordwise Distribution of Left and Right Surface Vertical Tail Pressures	CP vs X/CV	10 J 0 0 0 0	Z/BV, MACH, ALPHA Z/BV, MACH, BETA	323-330
		20 J 0 0 0 0		331-338
		0 K 0 -10 0 0		339-350
		10 K 0 -10 0 0		351-362
		20 K 0 -10 0 0		363-374
		0 K 0 -20 0 0		375-386

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TITLE	TYPE OF PLOT	PARAMETERS α β δ_e δ_R δ_{RF}	CONDITIONS VARYING	PAGES
Chordwise Distribution of Left and Right Surface Vertical Tail Pressures	CP vs X/CV	10 K 0 -20 0 0 20 K 0 -20 0 0 0 K 0 0 40 10 K 0 0 40 20 K 0 0 40	Z/EV, MACH, BETA	387-398 399-410 411-422 423-434 435-446
Orbiter Base Pressures	CP vs ALPHA	C 0 0 0 0 0	MACH, ALPHA	447-450
Orbiter Base Pressures	CP vs BETA	0 J 0 0 0 0	MACH, BETA	451-454
Upper MPS Nozzle Pressures	CP vs ALPHA	C 0 0 0 0 0	PHI, MACH, X/LNP	455-456
Upper MPS Nozzle Pressures	CP vs BETA	0 J 0 0 0 0	PHI, MACH, X/LNP	457-458
OMS Nozzle Pressures	CP vs ALPHA	C 0 0 0 0 0	PHI, MACH, X/LNM	459-460
OMS Nozzle Pressures	CP vs BETA	0 J 0 0 0 0	PHI, MACH, X/LNM	461-462
Test OA12C				
Longitudinal Distribution of Orbiter Fuselage Pressures	CP vs X/LB	D 0 0 0 0 40 0 M 0 -20 40 10 M 0 -20 40 20 M 0 -20 40	PHI, MACH, ALPHA PHI, MACH, BETA	463-480 481-498 499-516 517-534

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TITLE	TYPE OF PLOT	PARAMETERS				CONDITIONS VARYING	PAGES
		α	β	δ_e	δ_R	δ_{RF}	
Longitudinal Distribution of Orbiter Fuselage Pressures	CP vs X/LB	30	M	0	0	40	535-552
		0	M	10	0	40	553-570
		0	M	-20	0	40	571-588
		0	M	-40	0	40	589-606
Chordwise Distribution of Upper and Lower Surface Wing Pressures	CP vs X/CW	D	0	0	0	40	607-618
		0	M	0	-20	40	619-630
		10	M	0	-20	40	631-642
		20	M	0	-20	40	643-654
		30	M	0	0	40	655-666
		0	M	10	0	40	667-678
		10	M	10	0	40	679-690
		20	M	10	0	40	691-702
		0	M	-20	0	40	703-714
		10	M	-20	0	40	715-726
		20	M	-20	0	40	727-738
		0	M	-40	0	40	739-750

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TITLE	TYPE OF PLOT	α	β	δ_e	δ_R	δ_{RF}	CONDITIONS VARYING	PAGES
Chordwise Distribution of Upper and Lower Surface Wing Pressures	CP vs X/CW	10	M	-40	0	40	Y/BW, MACH, BETA	751-762
		20	M	-40	0	40	Y/BW, MACH, BETA	763-774
Chordwise Distribution of Left and Right Surface Vertical Tail Pressures	CP vs X/CV	D	O	0	0	40	Z/BV, MACH, ALPHA	775-786
		O	M	0	-20	40	Z/BV, MACH, BETA	787-798
		10	M	0	-20	40		799-810
		20	M	0	-20	40		811-822
		30	M	0	0	40		823-834
		30	M	0	-20	40		835-846
Orbiter Base Pressures	CP vs ALPHA	D	O	0	0	40	MACH, ALPHA	847-850
Orbiter Base Pressures	CP vs BETA	O	M	0	-20	40	MACH, BETA	851-854
Upper MPS Nozzle Pressures	CP vs ALPHA	D	O	0	0	40	PHI, MACH, X/LNP	855-856
Upper MPS Nozzle Pressures	CP vs BETA	O	M	0	-20	40	PHI, MACH, X/LNE	857-858
OMS Nozzle Pressures	CP vs ALPHA	D	O	0	0	40	PHI, MACH, X/LNM	859-860
OMS Nozzle Pressures	CP vs BETA	O	M	0	-20	40	PHI, MACH, X/LNM	861-862

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PARAMETER SCHEDULES:

ALPHA

- A) -4, 0, 4, 8 Degrees
- B) -8, -6, -4, -2, 0, 2, 4, 6, 8 Degrees
- C) -4, 0, 5, 10, 15, 20, 22.5 Degrees
- D) 0, 5, 10, 15, 20 Degrees

BETA

- E) -4, 0, 4, 8 or -4, 2, 4, 8 Degrees
- F) -8, -6, -4, -2, 0, 2, 4, 6, 8 Degrees
- G) -7, -5, 3, 5, 7, 9 Degrees
- H) -8, -6, -4, -2, 2, 4, 6, 8 Degrees
- I) -5, 5, 7, 9 or -6, 4, 6, 8 Degrees
- J) -10, -5, 5, 10 Degrees
- K) -8, -4, 0, 4, 8 Degrees
- L) -10, 0, 10 Degrees
- M) -6, -3, 0, 3, 6 Degrees

INTRODUCTION

The 0.030-scale Aero Loads Space Shuttle model was tested in the Unitary Plan Wind Tunnels at ARC starting April 11, and continuing through May 17, 1973 as follows:

IA9A	11-foot Transonic	April 11 to April 14, 1973
OA12A	11-foot Transonic	April 16 to April 19, 1973
IA9C	8x7-foot Supersonic	April 23 to May 1, 1973
OA12C	8x7-foot Supersonic	May 2 to May 8, 1973
IA9B	9x7-foot Supersonic	May 9 to May 17, 1973

The testing was conducted in all three legs of the Unitary Plan Wind Tunnels to obtain a Mach number range from 0.6 to 3.5. Aerodynamic loads data were obtained for the ascent and entry configurations. The effects of control surface deflections were also investigated.

This report consists of 3 volumes of force data and 15 volumes of pressure data for a total of 18 volumes arranged in the following manner:

VOLUME NO.

CONTENTS

1	IA9A force data
2	IA9B and IA9C force data
3	OA12A and OA12C force data
4	IA9A plotted pressure data
5	IA9B and IA9C plotted pressure data
6	OA12A and OA12C plotted pressure data
7	IA9A tabulated pressure data <ul style="list-style-type: none">(a) orbiter fuselage(b) orbiter base(c) upper MPS nozzle
8	IA9A tabulated pressure data <ul style="list-style-type: none">(a) OMS nozzle(b) body flap(c) OMS pcd outside(d) lower wing surface
9	IA9A tabulated pressure data <ul style="list-style-type: none">(a) upper wing surface(b) left vertical tail surface(c) right vertical tail surface(d) APU inlet(e) SRM booster base
10	IA9A tabulated pressure data <ul style="list-style-type: none">(a) SRM booster(b) external tank(c) external tank base

INTRODUCTION (CONTINUED)

- 11 IA9B tabulated pressure data
 - (a) orbiter fuselage
 - (b) orbiter base
 - (c) upper MPS nozzle
 - (d) OMS nozzle
 - (e) body flap
 - (f) OMS pod outside
 - (g) lower wing surface
- 12 IA9B tabulated pressure data
 - (a) upper wing surface
 - (b) left vertical tail surface
 - (c) right vertical tail surface
 - (d) APU inlet
 - (e) SRM booster base
 - (f) SRM booster
 - (g) external tank
 - (h) external tank base
- 13 IA9C tabulated pressure data
 - (a) orbiter fuselage
 - (b) orbiter base
 - (c) upper MPS nozzle
 - (d) OMS nozzle
 - (e) body flap
 - (f) OMS pod outside
- 14 IA9C tabulated pressure data
 - (a) lower wing surface
 - (b) upper wing surface
 - (c) left vertical tail surface
 - (d) right vertical tail surface
- 15 IA9C tabulated pressure data
 - (a) APU inlet
 - (b) SRM booster base
 - (c) SRM booster
 - (d) external tank
 - (e) external tank base
- 16 OA12A tabulated pressure data
 - (a) orbiter fuselage
 - (b) orbiter base
 - (c) upper MPS nozzle
 - (d) OMS nozzle
 - (e) body flap
 - (f) OMS pod outside

INTRODUCTION (CONCLUDED)

- 17 OA12A tabulated pressure data
 - (a) lower wing surface
 - (b) upper wing surface
 - (c) left vertical tail surface
 - (d) right vertical tail surface
 - (e) APU inlet
- 18 OA12C tabulated pressure data
All components

NOMENCLATURE
General

<u>SYMBOL</u>	<u>SADSAC SYMBOL</u>	<u>DEFINITION</u>
a		speed of sound; m/sec, ft/sec
C_p	CP	pressure coefficient: $(P_1 - P_\infty)/q$
M	MACH	Mach number; q/a
p		pressure; N/m^2 , psf
q	$q(NSM)$ $q(PSF)$	dynamic pressure: $1/2 \rho V^2$, N/m^2 , psf
Re/L	Re/L	unit Reynolds number; per m, per ft
V		velocity; m/sec, ft/sec
α	ALPHA	angle of attack, degrees
β	BETA	angle of sideslip, degrees
ψ	PSI	angle of yaw, degrees
ϕ	PHI	angle of roll, degrees
ρ		mass density; kg/m^3 , slugs/ft ³

Reference & C.G. Definitions .

A_b		base area; m^2 , ft^2
b	BREF	wing span or reference span; m, ft
c.g.		center of gravity
$\frac{l}{c}_{REF}$	LREF	reference length or wing mean aerodynamic chord; m, ft
S	SREF	wing area or reference area; m^2 , ft^2
	MRP	moment reference point
	XMRP	moment reference point on X axis
	YMRP	moment reference point on Y axis
	ZMRP	moment reference point on Z axis

SUBSCRIPTS

b	base
l	local
s	static conditions
t	total conditions
∞	free stream

NOMENCLATURE (Continued)

Body-Axis System

<u>SYMBOL</u>	<u>SADSAC SYMBOL</u>	<u>DEFINITION</u>
C_N	CN	normal-force coefficient; $\frac{\text{normal force}}{qS}$
C_A	CA	axial-force coefficient; $\frac{\text{axial force}}{qS}$
C_Y	CY	side-force coefficient; $\frac{\text{side force}}{qS}$
C_{A_b}	CAB	base-force coefficient; $\frac{\text{base force}}{qS}$ $-A_b(p_b - p_\infty)/qS$
C_{A_f}	CAF	forebody axial force coefficient; $C_A - C_{A_b}$
C_m	CIM	pitching-moment coefficient; $\frac{\text{pitching moment}}{qS L_{REF}}$
C_n	CYN	yawing-moment coefficient; $\frac{\text{yawing moment}}{qS b}$
C_l	CBL	rolling-moment coefficient; $\frac{\text{rolling moment}}{qS b}$

Stability-Axis System

C_L	CL	lift coefficient; $\frac{\text{lift}}{qS}$
C_D	CD	drag coefficient; $\frac{\text{drag}}{qS}$
C_{D_b}	CDB	base-drag coefficient; $\frac{\text{base drag}}{qS}$
C_{D_f}	CDF	forebody drag coefficient; $C_D - C_{D_b}$
C_Y	CY	side-force coefficient; $\frac{\text{side force}}{qS}$
C_m	CIM	pitching-moment coefficient; $\frac{\text{pitching moment}}{qS L_{REF}}$
C_n	CLN	yawing-moment coefficient; $\frac{\text{yawing moment}}{qS b}$
C_l	CGL	rolling-moment coefficient; $\frac{\text{rolling moment}}{qS b}$
L/D	L/D	lift-to-drag ratio; C_L/C_D
L/D_f	L/DF	lift to forebody drag ratio; C_L/C_{D_f}

NOMENCLATURE (CONTINUED)

ADDITIONS TO STANDARD LIST

<u>SYMBOL</u>	<u>PLOT SYMBOL</u>	<u>DEFINITION</u>
δ_R	RUDDER	rudder, surface deflection angle, positive deflection, trailing edge to the left; degrees.
δ_e	ELEVON	elevon, surface deflection angle, positive deflection, trailing edge down; degrees.
δ_{RF}	RUDFLR	rudder flare, split rudder deflection angle, left split rudder trailing edge left and right split rudder trailing edge right, $\delta_{RF} = (\delta_{RL} + \delta_{RR})/2$, positive deflection; degrees.
i_o	ORBINC	incidence angle between the orbiter and external tank, $i_o = \alpha_t - \alpha_b$; degrees.
β_T	BETAT	angle of sideslip of external tank.
α_T	ALPHAT	angle of attack of external tank.
l_B	LB	length of orbiter body; in.
l_T	LT	length of external tank; in.
l_S	LS	length of SRM booster; in.
l_{NM}	LNM	length of OMS nozzle, positive direction forward of exit plane; in.
l_{NP}	LNP	length of MPS nozzle, positive direction forward of exit plane; in.
$b/2$	BW	wing semi-span; in.
b_v	BV	vertical tail span; in.
x	X	distance from component nose; in.
y	Y	lateral distance from centerline; in.

NOMENCLATURE (CONCLUDED)

<u>SYMBOL</u>	<u>PLOT SYMBOL</u>	<u>DEFINITION</u>
z	Z	vertical distance measured from W.L. 500 (vertical tail reference root chord); in.
c_w	CW	local wing chord; in.
c_v	CV	local vertical tail chord; in.
x/l_B	X/LB	longitudinal position/orbiter body length.
x/l_T	X/LT	longitudinal position/external tank length.
x/l_S	X/LS	longitudinal position/booster length.
x/l_{NM}	X/LNM	longitudinal position/OMS nozzle length.
x/l_{NP}	X/LNP	longitudinal position/MPS nozzle length.
x/c_w	X/CW	local chordwise position/local wing chord length.
x/c_v	X/CV	local chordwise position/local vertical tail chord length.
$y/b/2$	Y/BW	local spanwise position/wing semi-span.
z/b_v	Z/BV	local spanwise position/vertical tail span.

CONFIGURATIONS INVESTIGATED

The 0.030-scale aero loads model was a replica of the Space Shuttle Vehicle 2A. It consisted of four major components: the orbiter, the external oxygen and hydrogen tank (ET) and two solid rocket boosters (SRB).

On the ascent configuration, the orbiter was strut mounted from the ET on a Task Corporation MK XVI 2.5-inch diameter internal balance. The left SRB was strut mounted from the ET on a Task Corporation MK XXII 1.5-inch diameter internal balance. No attempt was made to simulate actual inter-attachments. The ET was sting mounted to the tunnel model support system on a Task Corporation 4.0-inch diameter internal balance. The right SRB was strut mounted symmetrically to the left side, but did not contain a balance. The orbiter configuration, designated as O₂A, consisted of B10C5D7W87V5R5M3F4.

The entry configuration consisted of the isolated orbiter, sting mounted to the tunnel model support system on a Task Corporation MK XXA 2.5-inch diameter internal balance. Midway through the OAL2C test, the MK XXA balance was damaged and was replaced by the MK XXB for the high angles of attack. The orbiter was provided with deflectable elevons by means of interchangeable brackets, deflectable rudder by means of a pin-indexed hinge, and interchangeable rudders to obtain different speed brake flare angles. The main propulsion system engines were removed during entry configuration testing to provide sting clearance. A cover plate was provided for the strut clearance hole.

The orbiter was instrumented with 374 pressure orifices on the left wing, left side of the fuselage, vertical tail, left OMS pod and engine, left and upper MPS engine and the base. The pressures were measured using eleven Scanivalve, Inc., S-type valve modules mounted internally (a five and a six gang unit). When tested in the entry configuration, the MPS pressures were not available for measurement.

The left side of the ET was instrumented with 136 pressure orifices. These pressures were measured by means of 7 Scanivalve, Inc., S-type valve modules configured as one unit of 6 modules and one single. These valves were mounted internally in the tank. The left SRB had one gang of six S-type modules to measure 102 pressures. The right SRB was not instrumented. The pressure transducers used in the valve modules were Statham PM 131 TC differential pressure transducers, with ranges of ± 10 psid, ± 12.5 psid and ± 15 psid. Reference and calibration pressures were measured by the ARC micro manometers.

Some modifications were made to the model at the test site prior to

CONFIGURATIONS INVESTIGATED (CONTINUED)

testing. These were as follows:

1. The forward tip of the ET containing the retro rocket package (Reference NR Drawing VL72-000018) was replaced with a flush 0.90 inch radius nose (Model scale). The new nose had five pressure taps; one in the nose and four more aft of the nose on the vertical and horizontal axis on a 0.315 inch radius.
2. The ET balance cavity was enlarged by one inch on the diameter (from 5 inches to 6 inches) to provide clearance for cable routing and eliminate balance interference.
3. The clearances around both the orbiter and the SRB struts were opened to approximately 1/8 inch to prevent interference.
4. An alternate rudder hinge pin was provided to give a rudder deflection of +15 degrees.

Before and during the tests various model discrepancies developed or were discovered. These were generally minor and had only a negligible, if any, effect on the data. Significant discrepancies are noted below:

1. Pressure orifices P171 and P173 on the OMS pod base were omitted.
2. During the test certain pressure taps developed leaks or became plugged. Data from these taps are questionable and should be used with caution. Difficulties in checking may have resulted in erroneous indications of leakage. Repairs were made to correct leaking or plugged pressure instrumentation, whenever possible, as the test progressed. The following list gives those taps that were indicated as bad on the various leak and response checks:

ARC Facility	Run Nos.	Orifice numbers with questionable pressure data
11'	2-4	72, 163, 427
↓	5-118	31, 100, 163, 163, 201, 427
	119-160	16, 98, 101, 107, 333, 427
	161-170	16, 98, 101, 107, 333, 427 + 306, 307, 327, 328, 336, 337, 356, 357, 375

CONFIGURATIONS INVESTIGATED (CONCLUDED)

<u>ARC Facility</u>	<u>Run Nos.</u>	<u>Orifice numbers with questionable pressure data</u>
11'	171-182	16, 47, 53, 75, 78, 98, 107, 201, 236, 237, 238, 307, 327, 365, 427
↓	183-189	Same as (171-182) + 7, 447, 525
↓	190-211	Same as (171-182)
8'x7'	220-234	20, 21, 24, 74, 326, 327, 336, 424, 427, 752, 868, 871
↓	235-285	74, 326, 327, 336, 424, 427, 752, 868, 871
↓	286-300	74, 107, 115, 124, 129, 138, 326, 327, 336, 427
↓	301-305	74, 326, 327, 336, 427
↓	306-333	74, 326, 327, 427
9'x7'	340-396	5, 325, 326, 327, 424, 427, 526, 752, 868, 871

TEST FACILITIES DESCRIPTION

Ames 11 x 11-Ft. Transonic

The Ames 11 x 11-Foot Transonic Wind Tunnel is a variable density, closed return, continuous flow type. This tunnel has an adjustable nozzle (two flexible walls) and a slotted test section to permit transonic testing over a Mach number range continuously variable from 0.4 to 1.4.

Ames 8 x 7-Ft. Supersonic

The Ames 8 x 7-Foot Supersonic Wind Tunnel is a closed-return, variable-density tunnel with a 8- by 7-foot rectangular test section. The nozzle has flexible side walls with fixed upper and lower surfaces. Mach number range is continuously variable from 1.45 to 3.5. Tunnel stagnation pressure can be varied from 0.3 to 2.0 atmospheres and Reynolds number per foot varies from 1.0×10^6 to 5.0×10^6 .

Ames 9 x 7-Ft. Supersonic

The Ames 9 x 7-Foot Supersonic Wind Tunnel is a variable density, continuous flow type with an adjustable nozzle to permit supersonic testing over a Mach number range continuously variable from 1.5 to 2.5. The nozzle is of the asymmetric, sliding-block type in which the variation of the test section Mach number is achieved by translating, in the streamwise direction, the fixed-contour block that forms the floor of the nozzle.

DATA REDUCTION

Standard procedures were utilized to reduce force and pressure data to coefficient form. The following dimensional constants were applied:

Reference Dimensions and Constants (Model Scale)

$A_{Ref.} = 0.461 \text{ ft}^2$	Orbiter reference area
$L_{Ref.} = 39.349 \text{ in.}$	Orbiter reference length
<u>Base Areas (Model Scale)</u>	
$A_{BOI} = 0.1903 \text{ Ft}^2$	Orbiter base area, integrated
$A_{POA} = 0.2360$	Orbiter base area, sting mounted
$A_{EMPSU} = 0.0417$	Orbiter upper MPS base area
$A_{EMPSL} = 0.0853$	Orbiter lower MPS base area
$A_{BACPS} = 0.0310$	Orbiter ACPS base area on OMS pod
$A_{BOMS} = 0.0231$	Orbiter OMS nozzle base area
$A_{BPOD} = 0.0257$	Orbiter OMS pod base area
$A_{CO} = 0.0611$	Orbiter sting cavity base area
$A_{BNOZ} = 0.0564$	SRM nozzle base area
$A_{BSKIRT} = 0.1729$	SRM nozzle skirt base area
$A_{BETT} = 0.3189$	ET Base area
$A_{CET} = 0.1964$	ET Sting cavity base area

TEST : 0A12 / EA9

TABLE I.

DATE : May, 1973

TEST CONDITIONS

MACH NUMBER	REYNOLDS NUMBER (per unit length)	DYNAMIC PRESSURE (pounds/sq. foot)	STAGNATION TEMPERATURE (degrees Fahrenheit)
0.6	4.0 x 10 ⁶	540	120° NOM.
0.9	4.5	800	
1.1	4.0	800	
1.25	3.0	630	
1.4	3.0	650	
1.55	2.8	600	
2.0	2.3	490	
2.5	1.5	300	
3.0	2.0	350	Y
3.5	2.0	300	

FIVE (5) TASK CORPORATION BALANCES
BALANCE UTILIZED: WITH CAPACITIES AS FOLLOWS:

	ISOLATED ORBITER		INTEGRATED VEHICLE		
	MARK IIA	MARK IIB	ORB MARK IIA	SRB MARK IIB	ET MARK IIB
NF	3000	3000	2400	1250	4000
NA	3000	3000	2400	1250	4000
YF	1500	1500	1200	500	2000
YA	1500	1500	1200	500	2000
X	600	600	1000	200	1000
R	4000	4000	4000	1000	10,000
SIZE	2.5"	2.5"	2.5"	1.5"	4.0"

COMMENTS: THE MARK IIA, 2.5" DIA. BALANCE WAS
DAMAGED AFTER RUN 319. THE MARK IIB WAS
SUBSTITUTED FOR RUN 320 AND SUBSEQUENT RUNS

TABLE II. CONTINUED

TEST: ARC - 11-707(JA-2)

DATE:

DATA SET / RUN NUMBER COLLATION SUMMARY

DATA SET IDENTIFIER	CONFIGURATION	SCHD. PARAMETERS/VALUES						NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE)				TEST RUN NUMBERS	
		α	β	δe	δR	δFR	ζ_0		0.6	0.9	1.1	1.25		
REMx19	$\phi_{2A} + S_3 + T_7$	6	C	0	-5	0	0.5	2			115	114		
20		8	T	T	-5	T	T	T			101	106		
21		-8			-10						60	69		
22		-6			T						61	70		
23		-4									62	71		
24		-2									63	72		
25		0									64	73		
26		2									65	74		
27		4									66	75		
28		6									67	76		
29		8									68	77		
30		-8			-15						78	88		
31		-6			T						79	89		
32		-4									80	90		
33		-2									81	91		
34		0									82	92		
35		2									83	93		
36		4									84	94		

17131925313743495561677376

COEFFICIENTS

1DVAR (1)DVAR (2)NDV

α OR β

SCHEDULES

TABLE II. CONTINUED

[illegible]

DATE. 5-17-73

35

TEST: ARC 97-707(JA96)

DATA SET RUN NUMBER COLLATION SUMMARY

DATE: 5-17-73

TEST RUN NUMBERS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
DATA SET IDENTIFIER	CONFIGURATION	SCHD.		PARAMETERS/VALUES				NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						

1	7	13	19	25	31	37	43	49	55	61	67	73	79
COEFFICIENTS													10.38 (2) NOV
α OR β													SCHEDULES

TABLE II. CONTINUED

DATE: 5-1-73

DATA SET/RUN NUMBER COLLATION SUMMARY

TEST: ARC 8x7-707 (IA9C)

[illegible]

TEST: AEC 847-707 (I-00) DATE: 5-1-73

DATA SET RUN: NUMBER COLLECTOR SUMMARY

721

TEST RUN NUMBERS												
DATA SET		TIME OF EXPOSURE		SCALING PARAMETERS/VALUES					MAIN NUMBERS (OR ALTERNATE INDEPENDENT)			
NO.	FILE	α	β	δ	δR	$\delta \theta$	$\delta \phi$	NO. OF PULSES	2.5	3.0	3.5	
17	230x17	-8	C	0	-10	0	0	0.5	3	274	280*	265
18	18	-4	—	—	—	—	—	—	—	275	291*	269
19	19	0	—	—	—	—	—	—	—	276	292*	270
20	20	4	—	—	—	—	—	—	—	277	283*	271
21	21	6	—	—	—	—	—	—	—	278	284*	272
22	22	8	—	—	—	—	—	—	—	279	295*	273

25	31	37	43	49	55	61	67	73	79
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	NDV	IDVAR (2)	IDVAR (1)	COUNT
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COEFFICIENTS

* NOTE: RUNS 280-285: A SCHEDULE 15: COEFFICIENT

-8, -4, 0, 4, 8

BOOK

SCHEDULES

TABLE II. CONTINUED

TEST : AMES 11-707 (OAL2A)

DATE : 4-23-73

DATA SET / RUN NUMBER COLLATION SUMMARY

TEST RUN NUMBERS

DATA SET IDENTIFIER	CONFIGURATION	SCHD.			PARAMETERS/VALUES			NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
		α	β	δ_e	δ_R	δ_{FR}	0.6		0.9																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
EBPX01	B ₀ C ₅ D ₁ N ₂ F ₃ M ₃ N ₆ V ₅ R ₃ W ₆ E ₁₀	A	0	0	0	0	0	2	119	125																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	

TEST : 205 2-107 (2-25)

DATA SET RUN NUMBER COLLATION SUMMARY

DATE 1-25-61

DATA SET IDENTIFIER		CONFIGURATION	SCHED.		PARAMETERS/VALUES				NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLES)										
			α	β	δe	δp	δPR		U.A.	M.A.	M.P.									
1	1	30-50-52-54-56-58-60-62-64-66-68-70-72-74-76-78-80-82-84-86-88-90-92-94-96-98-100	10	10	0	0	0	2	153	154										
2	2		15						154	159										
3	3		20						155	158										
4	4		0	0	-10				161	166										
5	5		5						162	167										
6	6		10						163	168										
7	7		15						164	169										
8	8		20						165	170										
9	9		-4	E -20					171	182										
10	10		0	C					172	181										
11	11		5						173	180										
12	12		10						174	179										
13	13		15						175	178										
14	14		20						176	177										
15	15		-4	E	0	0	40		183	189										
16	16		0	C					184	190										
17	17		5						185	191										
18	18		10						186	192										

α OR β

SCHEDULES

α A = MAX, 0, 5, 10, 15, 20, 25

β B = -10, -5, 5, 10

COEFFICIENTS

β C = -8, -4, 0, 4, 8

β D = -10, 0, 10

β E = -5, 0, 5

75 76

67

61

55

49

43

37

31

25

19

13

7

TEST: AMES 11-707 (0A12A)

DATA SET/RUN NUMBER COLLATION SUMMARY

DATE: 4-23-73

DATA SET IDENTIFIER	CONFIGURATION	SCHD. PARAMETERS/VALUES			NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE)						TEST RUN NUMBERS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
		α	β	δ_e		δ_R	δ_{FR}	0.6	0.9	1.1	1.25	1.4																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
RBPx37	B10G3D1N1E1M1N6L3M17E18	15	C	0	0	40		187	193																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									

TEST: 97-707 (DA12C)

DATA SET RUN NUMBER COLLATION SUMMARY"

DATE 5-9-73

TEST RUN NUMBERS									
DATA SET IDENTIFIER	CONFIGURATION	SCHD. I.P. PARAMETERS/VALUES				NO. OF RUNS	MACH NUMBERS (OR ALTERNATE INDEPENDENT VARIABLE)		
		α	β	PARAMETERS/VALUES			2.5	3.5	
				δC	δE				δFR
RBGX 01	B10C ₁ D ₁ M ₂ E ₂ M ₃ N ₃ V ₃ F ₃ V ₃ E ₃	4	0	0	0	40	2	290	286
02		0	B	T	T	T	1	293	289
03		10	C					292	288
04		20	C					291	287
05		0	D		-20			297	294
06		10			T	T		298	295
07		20						299	296
08		0		10	0			303	300
09		10		T	T			304	301
10		20						305	302
11		0		-20				309	306
12		10		T	T			310	307
13		20						311	308
14		0		-40				317	314
15		10		T	T			318	315
16		20						319	316
17		E	0	0			1	322	320
18		30	D	0			1	323	321

1	7	13	19	25	31	37	43	49	55	61	67	75 76
<div style="display: flex; justify-content: space-between;"> <div> α OR β SCHEDULES </div> <div> COEFFICIENTS </div> <div> IDVAR (1) IDVAR (2) NDV </div> </div>												
<div style="display: flex; justify-content: space-between;"> <div> $\alpha A = 0, 5, 10, 15, 20$ $\alpha B = 3, -3$ </div> <div> $\beta C = 6, 3, -3, -6$ $\beta D = 6, 3, 0, -3, -6$ </div> <div></div> </div>												

$$\begin{array}{r} BC = 6, 3, 3, 6 \\ \hline BD = 6, 3, 0, 3, 6 \end{array}$$
 $\alpha E = 15, 20, 25, 30, 35, 40$

TABLE II. CONCLUDED

[illegible]

TABLE III. MODEL COMPONENT DIMENSIONAL DATA

MODEL COMPONENT: B10 BodyGENERAL DESCRIPTION: Fuselage, 2A Configuration, Lightweight Orbiter, per
Rockwell Lines VL70-000089 "B."Scale Model = .030DRAWING NUMBER: VL70-000089 "B"
VL70-000092, 93, 94 "A"

<u>DIMENSIONS:</u>	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
Length ~ IN	<u>1328.3</u>	<u>39.8490</u>
Max. Width ~ IN ($@X_0 = 1528.3$)	<u>265.0</u>	<u>7.9500</u>
Max. Depth ~ IN. ($@X_0 = 1480.52$)	<u>248.0</u>	<u>7.4400</u>
Fineness Ratio	<u>5.012</u>	<u>5.012</u>
Area ~ Ft ²		
Max. Cross-Sectional	<u>456.4</u>	<u>.41076</u>
Planform	<u> </u>	<u> </u>
Wetted	<u> </u>	<u> </u>
Base	<u> </u>	<u> </u>

TABLE III. (CONTINUED)

MODEL COMPONENT: Canopy - C5GENERAL DESCRIPTION: 2A Configuration per Lines VL70-000092Scale Model = .030DRAWING NUMBER: VL70-000092DIMENSIONS:FULL-SCALEMODEL SCALE

Length (STA FWD Bulkhead)

391.011.730

Max. Width (T.E. Bulkhead)

560.016.800

Max. Depth (WP = 42.9 22 to = 500)

Fineness Ratio

Area

Max. Cross-Sectional

Planform

Wetted

Base

TABLE III. (CONTINUED)

MODEL COMPONENT: Manipulator Housing D-7GENERAL DESCRIPTION: 2A Configuration per Rockwell Lines VL70-000093Scale Model = .030DRAWING NUMBER: VL70-000093DIMENSIONS:FULL-SCALEMODEL SCALE

Length ~ IN.

881.0026.430

Max. Width ~ IN.

51.001.530

Max. Depth ~ IN.

23.00.690

Fineness Ratio

Area

Max. Cross-Sectional

Planform

Wetted

Base

D Fuselage

BP = 0.00

WP = 500.0 IN. FS

X.426.0 to 1307.0 IN. FS

TABLE III. (CONTINUED)

MODEL COMPONENT: WING-W87 New Light Weight OrbiterGENERAL DESCRIPTION: Orbiter Configuration Per Lines VL70-000093.NOTE: (Dihedral Angle is defined at the lower surface of the Wing at the 75.33% element line projected into a plane perpendiculary.Scale Model = .030TEST NO.DWG. NO. VL70-000093DIMENSIONS:FULL-SCALEMODEL SCALETOTAL DATA

Area (Theo.)	Ft ²		
Planform		2690.00	2.42100
Span (Theo In.)		936.68	28.10040
Aspect Ratio		2.265	2.265
Rate of Taper		1.177	1.177
Taper Ratio		0.200	0.2000
Dihedral Angle, degrees		3.5000	3.500
Incidence Angle, degrees		3.000	+3.00
Aerodynamic Twist, degrees		3.500	+3.000
Sweep Back Angles, degrees			
Leading Edge		45.00	45.00
Trailing Edge		-10.24	-10.24
0.25 Element Line		35.209	35.209
Chords:			
Root (Theo) B.P.O.O.		689.24	20.67720
Tip, (Theo) B.P. 46834		137.85	4.13550
MAC		474.81	14.24430
Fus. Sta. of .25 MAC		1136.89	34.10670
W.P. of .25 MAC		299.20	8.97840
183.13 B.L. of .25 MAC		182.13	5.46390

EXPOSED DATA

Area (Theo)	Ft ²		
Span, (Theo) In. BP108 to 468.341		1752.29	1.57706
Aspect Ratio		720.68	21.62040
Taper Ratio		2.058	2.058
Chords		.2451	.2451
Root BP108		562.40	16.8720
Tip 1.00 $\frac{b}{2}$		137.85	4.13550
MAC		393.03	11.79090
Fus. Sta. of .25 MAC		1185.31	35.55930
W.P. of .25 MAC		300.207	9.00621
B.L. of .25 MAC		143.76	4.31280
Airfoil Section (Rockwell Mod NASA)			
XXXX-64			
Root $\frac{b}{2}$ = .425		.10	.10
Tip $\frac{b}{2}$ = 1.00		.12	.12
Data for (1) of (2) Sides			
Leading Edge Cuff			
Planform Area Ft ²		120.33	.10810
Leading Edge Intersects Fus M. L. @ Sta		560.0	16.80
Leading Edge Intersects Wing @ Sta		1035.0	31.050

TABLE III. (CONTINUED)

MODEL COMPONENT: Elevon E-18GENERAL DESCRIPTION: 2A Configuration Per W-87 Rockwell Lines VL 70-000093Data for (1) of (2) SidesScale Model = .030DRAWING NUMBER: VL 70-000093

<u>DIMENSIONS:</u>	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
Area ~ Ft ²	<u>205.52</u>	<u>.18497</u>
Span (equivalent) ~ IN.	<u>353.34</u>	<u>10.60020</u>
Inb'd equivalent chord	<u>114.78</u>	<u>3.44340</u>
Outb'd equivalent chord	<u>55.00</u>	<u>1.6500</u>
Ratio movable surface chord/ total surface chord		
At Inb'd equiv. chord	<u>.208</u>	<u>.208</u>
At Outb'd equiv. chord	<u>.400</u>	<u>.400</u>
Sweep Back Angles, degrees		
Leading Edge	<u>0.00</u>	<u>0.00</u>
Tailing Edge	<u>-10.24</u>	<u>-10.24</u>
Hingeline	<u>0.00</u>	<u>0.00</u>
Area Moment (Normal to hinge line) Ft ³	<u>1548.07</u>	<u>.04180</u>
Product of Area Moment		

TABLE III. (CONTINUED)

MODEL COMPONENT: VERTICAL - V5 (Light Weight Orbiter Configuration)GENERAL DESCRIPTION: Centerline Vertical Tail, Double Wedge Airfoil with Rounded Leading Edge

Scale Model = .030

DRAWING NUMBER:

VL70-000095DIMENSIONS:FULL-SCALEMODEL SCALETOTAL DATA

Area (Theo) Ft ²	413.25	.37192
Planform		
Span (Theo) In	315.72	9.47160
Aspect Ratio	1.675	1.675
Rate of Taper	0.507	0.507
Taper Ratio	.404	.404
Sweep Back Angles, degrees		
Leading Edge	45.000	45.000
Trailing Edge	26.249	26.249
0.25 Element Line	41.130	41.130
Chords:		
Root (Theo) WP	268.50	8.05500
Tip (Theo) WP	108.47	3.25410
MAC	199.81	5.99430
Fus. Sta. of .25 MAC	1463.50	43.90500
W. P. of .25 MAC	635.522	19.06566
B. L. of .25 MAC	0.00	0.00
Airfoil Section		
Leading Wedge Angle Deg	10.000	10.000
Trailing Wedge Angle Deg	14.920	14.920
Leading Edge Radius IN.	2.00	.06
Void Area Ft ²	13.17	.01185
Blanketed Area Ft ²	12.67	.01140

TABLE III. (CONTINUED)

MODEL COMPONENT: R-5 RudderGENERAL DESCRIPTION: ZA Configuration per Rockwell Lines VL 70-000095Scale Model = .030DRAWING NUMBER: VL 70-000095

<u>DIMENSIONS:</u>	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
Area ~ Ft ²	<u>106.38</u>	<u>.09574</u>
Span (equivalent) ~ IN.	<u>201.0</u>	<u>6.030</u>
Inb'd equivalent chord	<u>91.585</u>	<u>2.74755</u>
Outb'd equivalent chord	<u>50.833</u>	<u>1.52499</u>
Ratio movable surface chord/ total surface chord		
At Inb'd equiv. chord	<u>0.400</u>	<u>0.400</u>
At Outb'd equiv. chord	<u>0.400</u>	<u>0.400</u>
Sweep Back Angles, degrees		
Leading Edge	<u>34.83</u>	<u>34.83</u>
Tailing Edge	<u>26.25</u>	<u>26.25</u>
Hingeline	<u>34.83</u>	<u>34.83</u>
Area Moment (Normal to hinge line) ~ Ft ³	<u>526.13</u>	<u>.01421</u>
Product of Area and Mean Chord		

TABLE III. (CONTINUED)

MODEL COMPONENT: OMS Pod -M3GENERAL DESCRIPTION: 2A Light Weight Configuration per Rockwell LinesVL70-000094AScale Model = .030DRAWING NUMBER: VL70-000094A

<u>DIMENSIONS:</u>	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
Length	<u>346.0</u>	<u>10.380</u>
Max. Width $X_{\perp} = 1450.0$	<u>108.0</u>	<u>3.240</u>
Max. Depth $X_o = 1500.0$	<u>113.0</u>	<u>3.390</u>
Fineness Ratio	<u> </u>	<u> </u>
Area		
Max. Cross-Sectional	<u> </u>	<u> </u>
Planform	<u> </u>	<u> </u>
Wetted	<u> </u>	<u> </u>
Base	<u> </u>	<u> </u>

L of OMS Pod

WP = 463.9 IN. FS WP 400 + 63.9 = 463.9

BP = 80.0 IN. FS

Length 1214.0 to 1560.0' = 346.0 IN. FS

TABLE III. (CONTINUED)

MODEL COMPONENT: F4 Body FlapGENERAL DESCRIPTION: 2A Configuration per Rockwell Lines VL70-000094AScale Model = .030DRAWING NUMBER: VL70-000094A

<u>DIMENSIONS:</u>	<u>FULL-SCALE</u>	<u>MODEL SCALE</u>
Length	<u>84.70</u>	<u>2.541</u>
Max. Width	<u>265.00</u>	<u>7.950</u>
Max. Depth	<u> </u>	<u> </u>
Fineness Ratio	<u> </u>	<u> </u>
Area ~ Ft ²		
Max. Cross-Sectional	<u> </u>	<u> </u>
Planform	<u>142.64</u>	<u>.12838</u>
Wetted	<u> </u>	<u> </u>
Base Ft ²	<u>38.65</u>	<u>.03478</u>

TABLE III. (CONTINUED)

MODEL DIMENSIONAL DATA

MODEL COMPONENT : S3-Booster Solid Rocket MotorGENERAL DESCRIPTION : 2A Configuration Per Rockwell Lines VL77-000012
& VL72-000061 "B"Body of Revolution; Data for (1) of (2) SidesScale Model = .030DRAWING NUMBER : VL 77-000012

DIMENSIONS :	FULL SCALE	MODEL SCALE
Length ~IN.	<u>1732.0</u>	<u>51.96</u>
Max Width (DIA) IN. BSRM Tank	<u>142.0</u>	<u>4.260</u>
Max Depth (DIA) Aft Skirt	<u>259.0</u>	<u>7.77</u>
Fineness Ratio L/D	<u>6.687</u>	<u>6.687</u>
Area ~ Ft ²	<u> </u>	<u> </u>
Max. Cross-Sectional (Aft Skirt)	<u>365.87</u>	<u>.32928</u>
Planform	<u> </u>	<u> </u>
Wetted	<u> </u>	<u> </u>
Base	<u> </u>	<u> </u>

Ref.

FS (Orbiter) = 0.00 = 747.99 IN. ET = 200.0 IN. BSRM

WP (BSRM) = WP 400(Orbiter) - 344.413 = 55.587 IN.

BP (Orbiter) = 0.00 = 243.0 IN. BSRM

TABLE III. (CONCLUDED)

MODEL COMPONENT: EXTERNAL TANK - T9

GENERAL DESCRIPTION: 2A Configuration

NOTE: T9 identical to T8 W/O retro pkg., nose w/30"R F.S.

DRAWING NUMBER

NONE

DIMENSION:

FULL SCALE

MODEL SCALE

Length - IN.

1858

55.740

Max Width (Dia) - IN.

324.0

9.720

Max Depth

Fineness Ratio L/D

5.73457

5.73457

Area - FT²

Max Cross-Sectional

572.56

0.51530

Planform

Wetted

Base

Nose, Radius, IN.

30.0

ORBITER BODY

ORBITER STATION ~ X _o			RADIAL LOCATION θ ~ DEGREES																	
FULL	MODEL	X _o /l	0	20	40	55	70	90	105	110	120	135	142	150	157	162	165	169	172	180
200	6.00	0	20																	23
210	6.30	.008	21					22						31						32
225	6.75	.019	24	25	26	27	28	29			30			40						41
245	7.35	.034	33	34	35	36	37	38			39			49						50
280	8.40	.060	42	43	44	45	46	47			48			58						59
380	11.40	.136	51	52	53	54	55	56			57				61			60		
400	12.00	.151																		
410	12.30	.158																		
430	12.90	.173	62	63	64	65	66	67			68		73	69		70		71		72
460	13.80	.196																		
500	15.00	.226	74	75	76	77	78	79			80			81			82			83
560	16.80	.271	84		85		86	87			88			89			90			91
625	18.75	.320	92		93		94	95			96			97			98			99
725	21.75	.395	100		101		102	103			104			105			106			107
880	26.40	.512	108		109		110	111			112			113			114			115
980	29.40	.587	116		117															
1080	32.40	.662			118		119	120			121			122			123			124
1180	35.40	.738					125	126			127			128						129
1245	37.35	.787			130		131	132	133		134	135		136			137			138
1300	39.00	.828			139		140	141			143	144		145			146			
1375	41.25	.885			147		148	149			151	152		153			154			
1430	42.90	.926			155		156	157			159	160		161			162			
1480	44.40	.964	163				164	165			167	168		169			170			
1530 ^a	45.90	1.001								171	173									
1530 ^b	45.90	1.001								172	174									

^a OMS POD, INSIDE

^b OMS POD, OUTSIDE

a. Orbiter body

Table IV. Pressure Orifice Locations

ORBITER BASE

LOCATION	ORIFICE NUMBERS
ORBITER BASE (INTEGRATED)	1, 2, 3, 4
LEFT MPS NOZZLE BASE	5
RIGHT MPS NOZZLE BASE	6
ACT'S BASE AREA ON OMS POD	7
OMS NOZZLE BASE	8
OMS POD BASE	9
ORBITER BASE (STING MOUNT)	11, 12, 13, 14
ORBITER STING CAVITY	15, 16

BODY FLAP LWR SURFACE

ORB. STA. ~ X ₀	θ ~ DEG
FULL MODEL	0 40
1580	47.40 175 176

MPS NOZZLE

X ~ IN.		θ ~ DEG				
FWD BASE		0	90	135	180	270
25	0.75	181	182	183	184	186
50	1.50	187	188	189	190	191
75	2.25		193	194	195	196
						197

OMS NOZZLE

X ~ IN		θ ~ DEG		
FWD BASE		MODEL	135	180 225
10	0.30		177	178 179
20	0.60			180

VERTICAL TAIL

WATER PLANE ~ Z ₀		X/C ~ THEORETICAL VERTICAL CHORD									
FULL	MODEL	7 v	0	.05	.15	.30	.52	.65	.775	.90	
525	15.75	.079	400								
550	16.50	.158		411	412	413	414	415	416		
				511	512	513	514	515	516		
600	18.00	.316		421	422	423	424	425	426	427	
				521	522	523	524	525	526	527	
690	20.70	.60		431	432	433	434	435	436	437	
				531	532	533	534	535	536	537	
765	22.95	.84		441	442	443	444	445	446	447	
				541	542	543	544	545	546	547	
792	23.76	.925		451	452	453	454	455	456	457	
				551	552	553	554	555	556	557	

b. Orbiter Base, Body Flap Lower Surface, and Vertical Tail

Table IV. (Continued.)

ORBITER WING

ORBITER B.P. - Y			Y/C - THEORETICAL WING CHORD																				
FULL	MODEL	7	-.40	-.35	-.25	-.15	-.033	0.0	.05	.15	.25	.40	.55	.60	.65	.70	.725	.75	.775	.80	.85	.90	.95
140	4.20	.299	U L	201 301		202 302		203 303		204 304			205 305					206 306		207 307	208 308		209 309
170	5.10	.364	U L		210 311	211 312			212 312														
200	6.00	.427	U L				220		221 321	222 322		223 323	224 324					225 325		226 326	227 327	228 328	229 329
230	7.50	.534	U L					230	231 331	232 332	233 333	234 334	235 335				236 336		237 337		238 338	239 339	240 340
315	9.45	.673	U L					250	251 351	252 352	253 353	254 354	255 355			256 356			257 357		258 358	259 359	
365	10.95	.780	U L					260	261 361	262 362	263 363				264 364			265 365			266 366	267 367	
415	12.45	.887	U L					270	271 371	272 372	273 373	274 374		275 375				276 376				277 377	

U - UPPER SURFACE L - LOWER SURFACE

7	X/C LOCAL WING CHORD
.299	0, .094, .229, .362, .497, .700, .834, .865, .900, .965
.364	0, .086, .246
.427	0, .081, .177, .402, .565, .760, .808, .857, .905, .953
.534	SAME AS THEORETICAL CHORD
.673	
.780	
.867	

c. Orbiter Wing
Table IV. Continued.

EXTERNAL TANK

TANK STA ~ XT			$\theta \sim \text{DEG}$									
FULL	MODEL	XT/LT	C	30	60	90	120	135	150	165	180	270
316.	9.48	0	610								619	620
317.7	9.53	.001	611			614					629	
400	12.00	.045	621	622	623	624	625	627		638	639	
520	15.60	.110	631	632	633	634	635	637		648	649	
640	19.20	.174	641	642	643	644	645	647		658	659	
760	20.10	.191	651	652	653	654	655	657		668	669	
880	21.30	.212	661	662	663	664	665	667		678	679	
1000	22.50	.234	671	672	673	674	675	677		688	689	
1120	25.50	.287	681	682	683	684	685	687		698	699	
1240	28.50	.341	691	692	693	694	695	696		708	709	
1360	31.50	.395	701	702	703	704	705	707		719	720	
1480	34.50	.449	711	712	713	714	715	717		728	729	
1600	37.50	.503	721	722	723	724	725	727		739	740	
1720	40.50	.557	731	732	733	734	735	737		748	749	
1840	45.00	.637	741	742	743	744	745	747		759	760	
1960	51.00	.745	751	752	753		755	756		768	769	
2080	57.00	.853	761	762	763		765	766		778	779	
2200	61.20	.929	771	772	773	774	775	776				
STING CAVITY			601									
BASE			602			603					604	

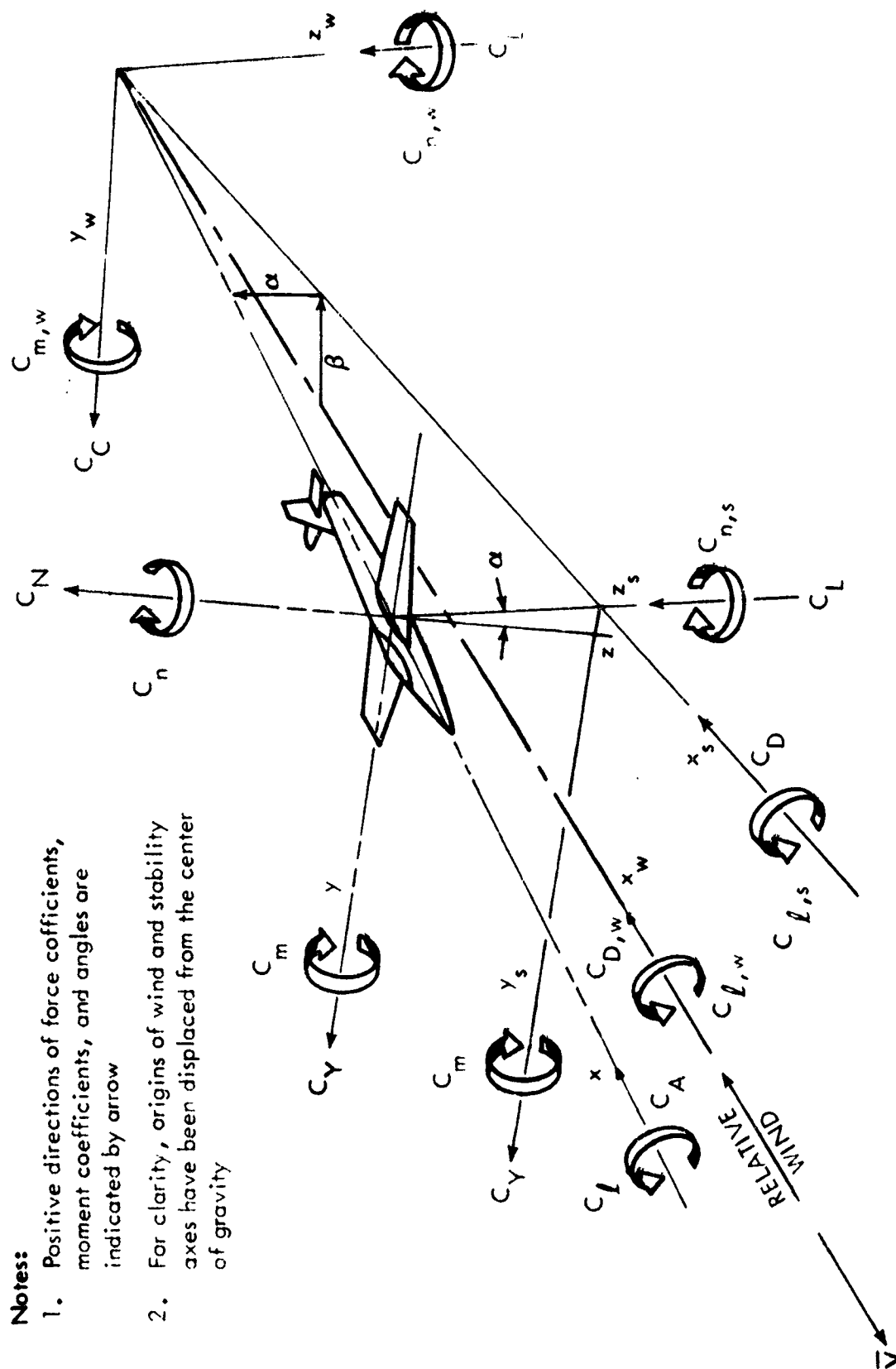
d. External Tank
Table IV. Continued.

LEFT SRM

SRM STATION ~ XS			$\theta \sim \text{DEG}$							
FULL	MODEL	XS/LS	0	45	90	135	180	225	270	315
200	6.00	0	810							
260	7.80	.034	811	812	813	814	815	816	817	818
370	11.10	.097	821	822	823	824	825	826	827	828
400	12.00	.114	831	832	833	834	835	836	837	838
450	13.50	.142	841	842	843	844	845	846	847	848
550	16.50	.199	851	852	853	854	855	856	857	858
700	21.00	.284	861		863		865	866	867	868
850	25.50	.370	871		873		875		877	
1050	31.50	.484	881		883		885			
1250	37.50	.597	891		893		895			
1450	43.50	.711	901		903		905		907	
1650	49.50	.825	911		913		915		917	
1750	52.50	.882	921	922	923	924	925	926	927	928
1790	53.70	.904	931	932	933	934	935	936	937	938
1850	55.50	.939	941	942	943	944	945	946	947	948
1900	57.00	.967	951	952	953	954	955	956	957	958
NOZZLE BASE			801							
SKIRT BASE			802		803		804		805	

e. Left SRM

Table IV. Concluded.

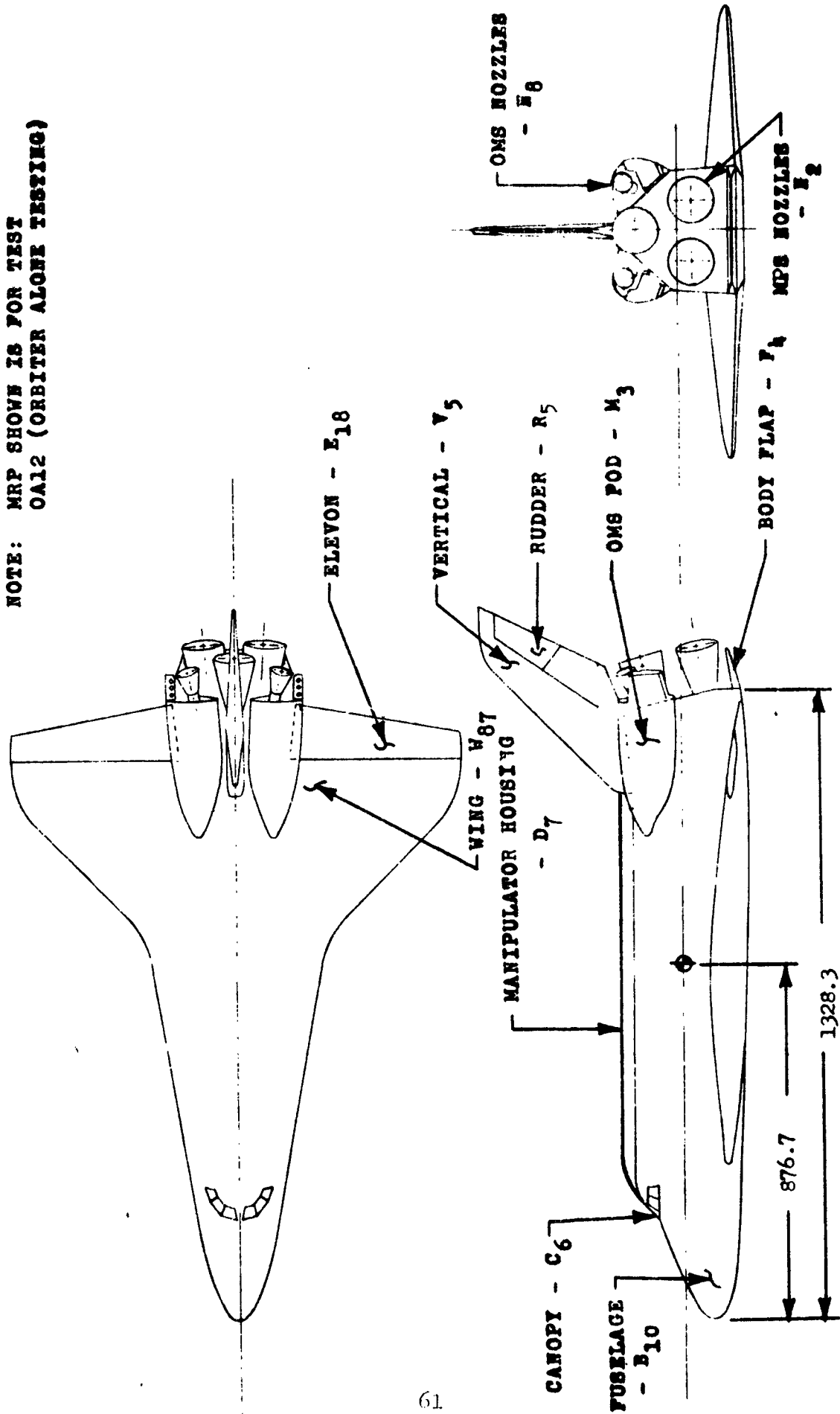


Notes:

1. Positive directions of force coefficients, moment coefficients, and angles are indicated by arrow
2. For clarity, origins of wind and stability axes have been displaced from the center of gravity

Figure 1. - Axis Systems.

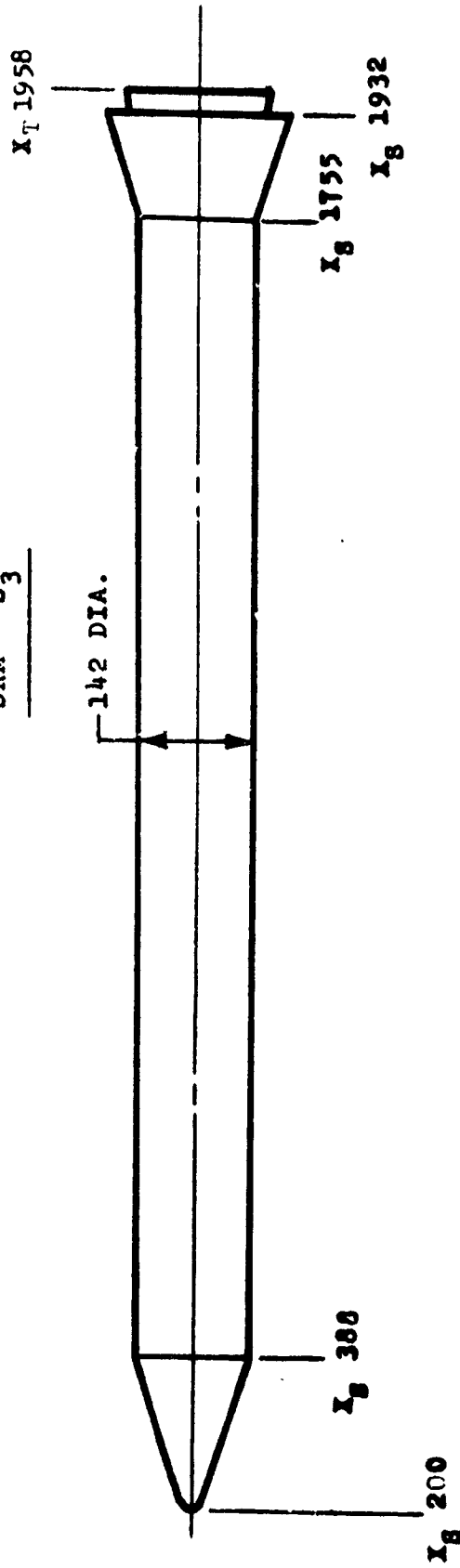
NOTE: MRP SHOWN IS FOR TEST
0A12 (ORBITER ALONE TESTING)



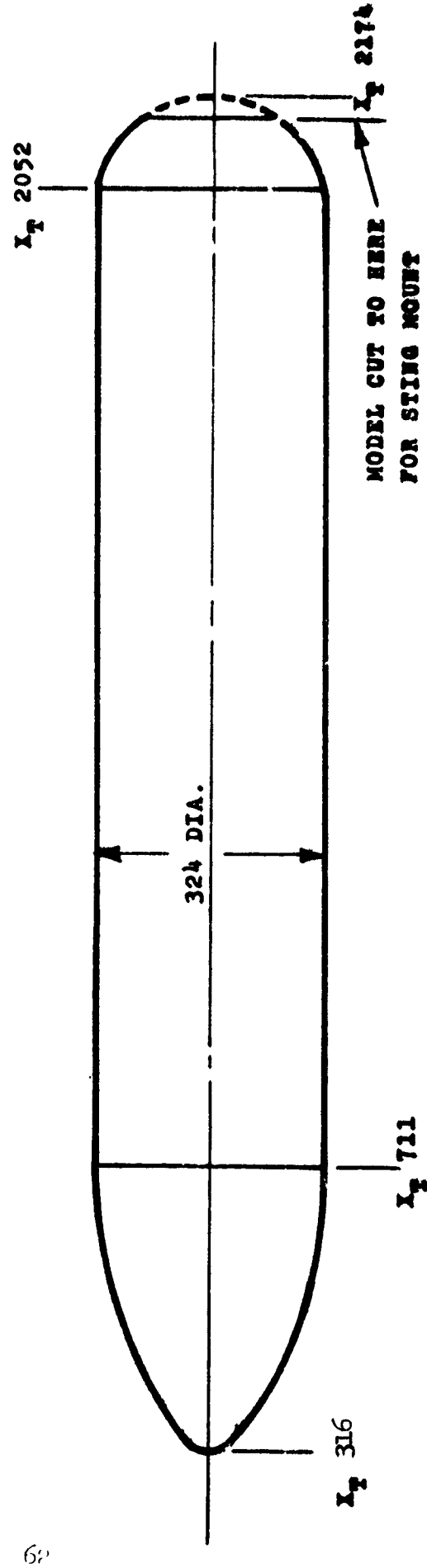
a. Orbiter, O2A

Figure 2. - Model Sketches.

SRM S₃

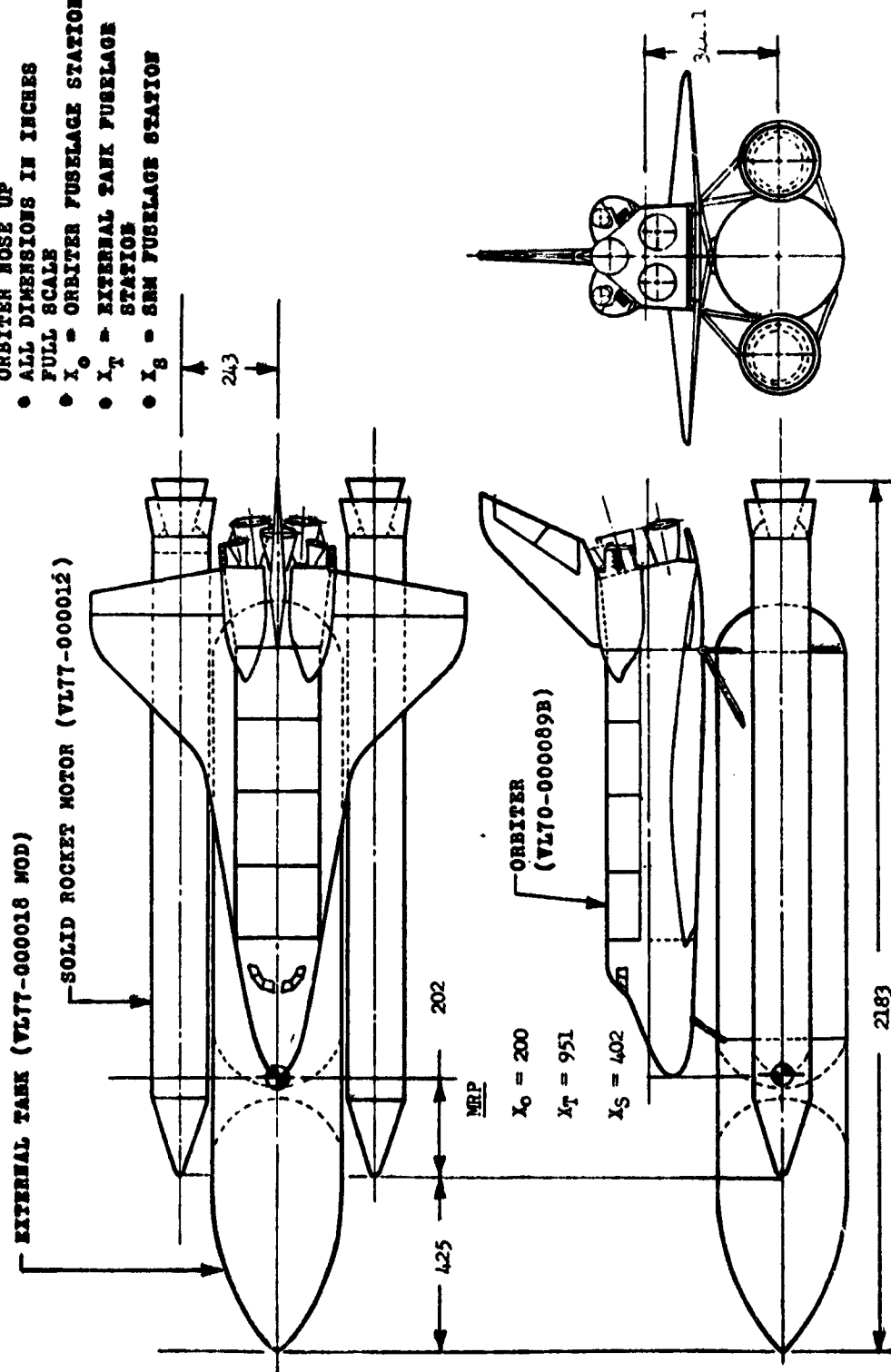


EXTERNAL TANK T₉



b. SRM, S₃, and External Tank, T₉
Figure 2. - Continued.

- NOTES:**
- ORBITER INCIDENCE ANGLE
RELATIVE TO TANK CL IS 0.5°
ORBITER NOSE UP
 - ALL DIMENSIONS IN INCHES
FULL SCALE
 - X_0 = ORBITER FUSELAGE STATION
 - X_T = EXTERNAL TANK FUSELAGE
STATION
 - X_S = SRM FUSELAGE STATION



c. Integrated Vehicle
Figure 2. - Concluded.





b. Isolated Orbiter (Entry Configuration) Mounted in the ARC 8x7 Ft. Tunnel

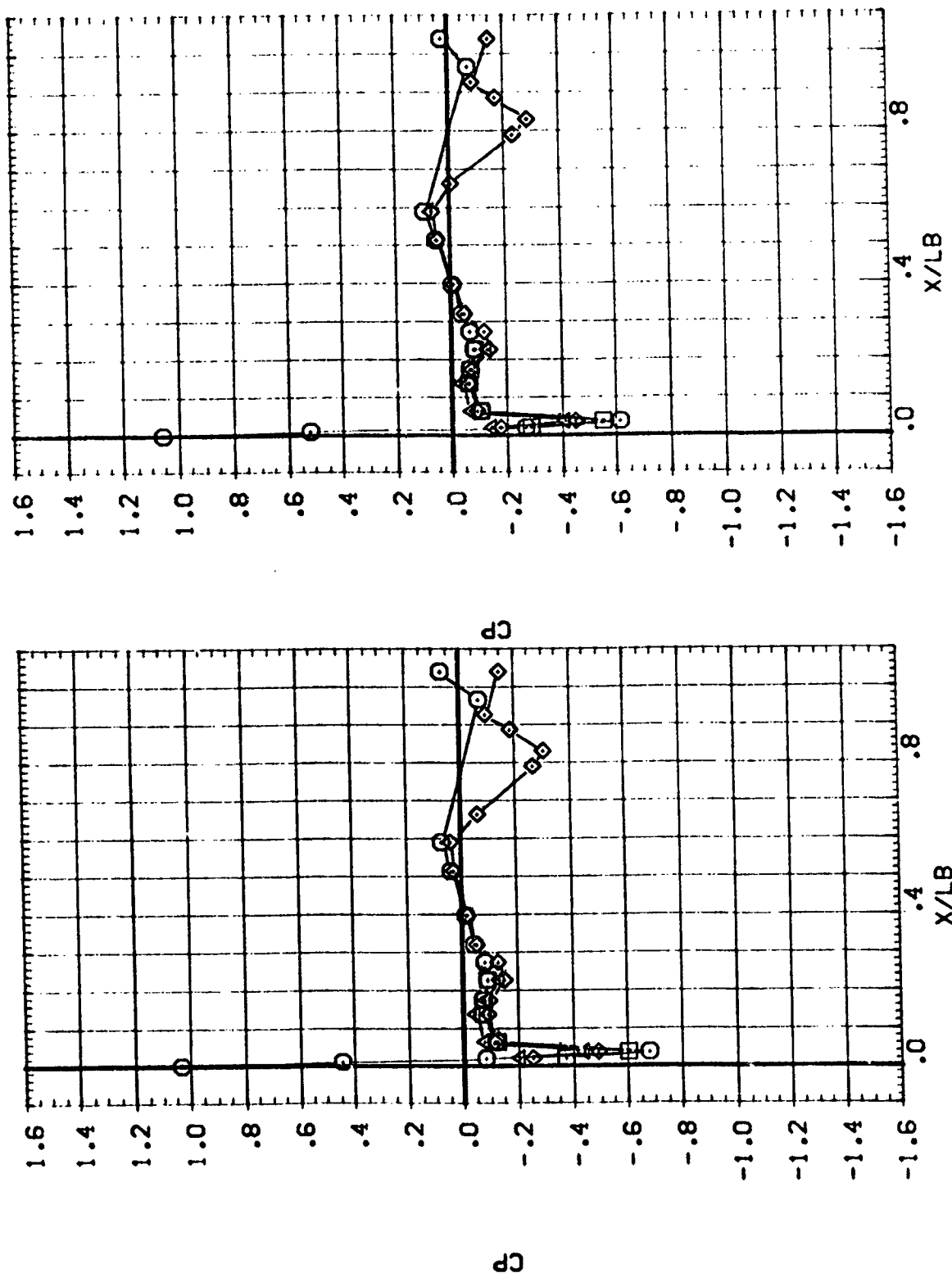
Figure 3. - Concluded.

DATA FIGURES



AMES 11-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (RBM801)

SYMBOL	PM:	ALPHA*	MACH	PARAMETRIC VALUES			
				BETAT	.000	ORBITING	.500
○	.000	-4.100	.597	RLODER	.000	ELEVON	.000
□	20.000	-.000		RJDFLR	.000		
◇	40.000						
△	55.000						

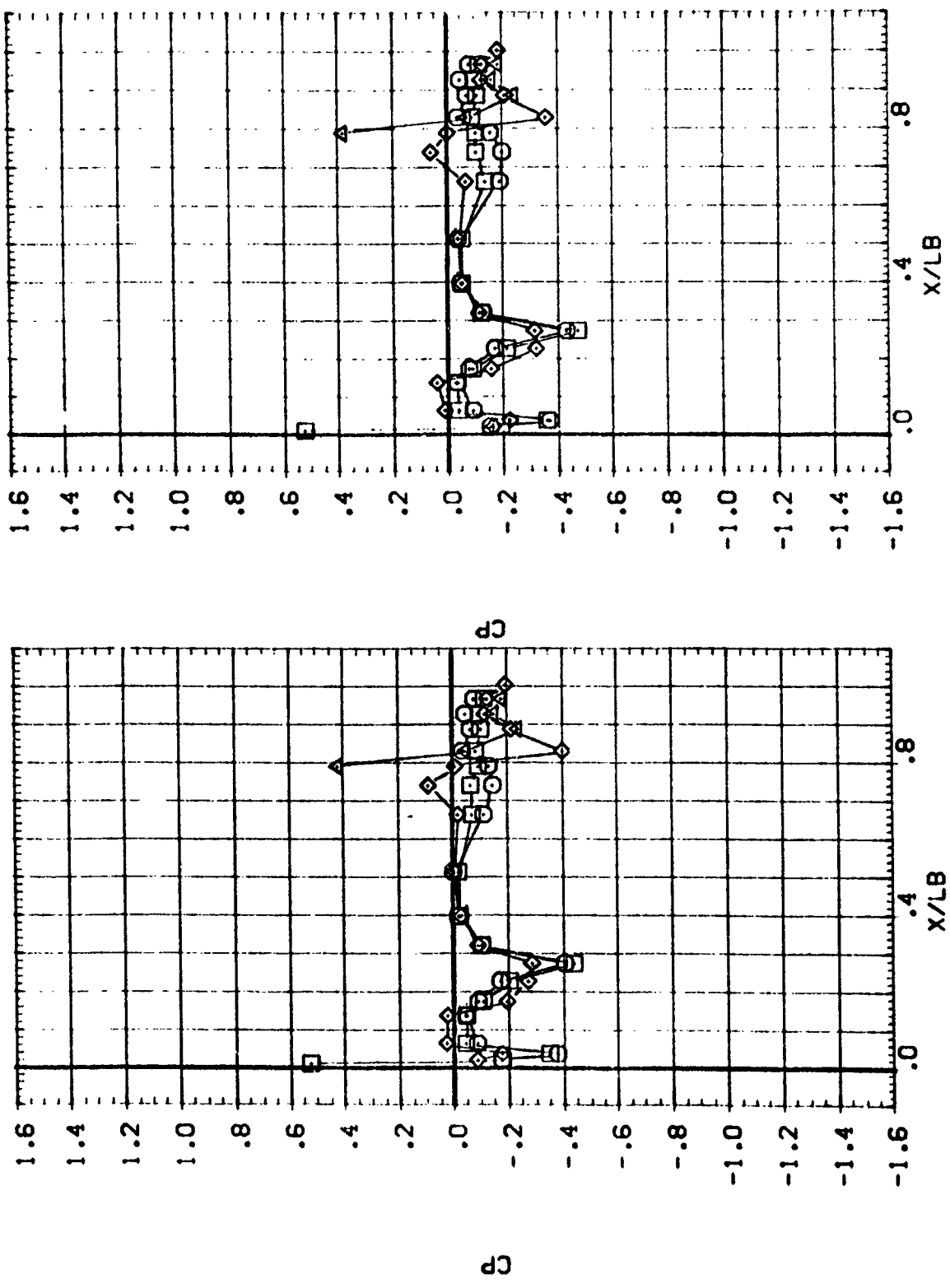


LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AVES :1-707 1A9 C2A - S3 + 19 ORBITER FUSELAGE (R3MBO1)

PHI:	ALPHA:	MACH	BETA:	ORBIT INC
70.000	-4.100	.597	.000	.500
90.000	-0.000		.000	.000
120.000			.000	.000
135.000				

PARAMETRIC VALUES



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES



AVES : 1-707 1A9 02A - S3 + 19 ORBITER FUSELAGE (RBMB01)

SYMBOL
 ○
 □
 ◇

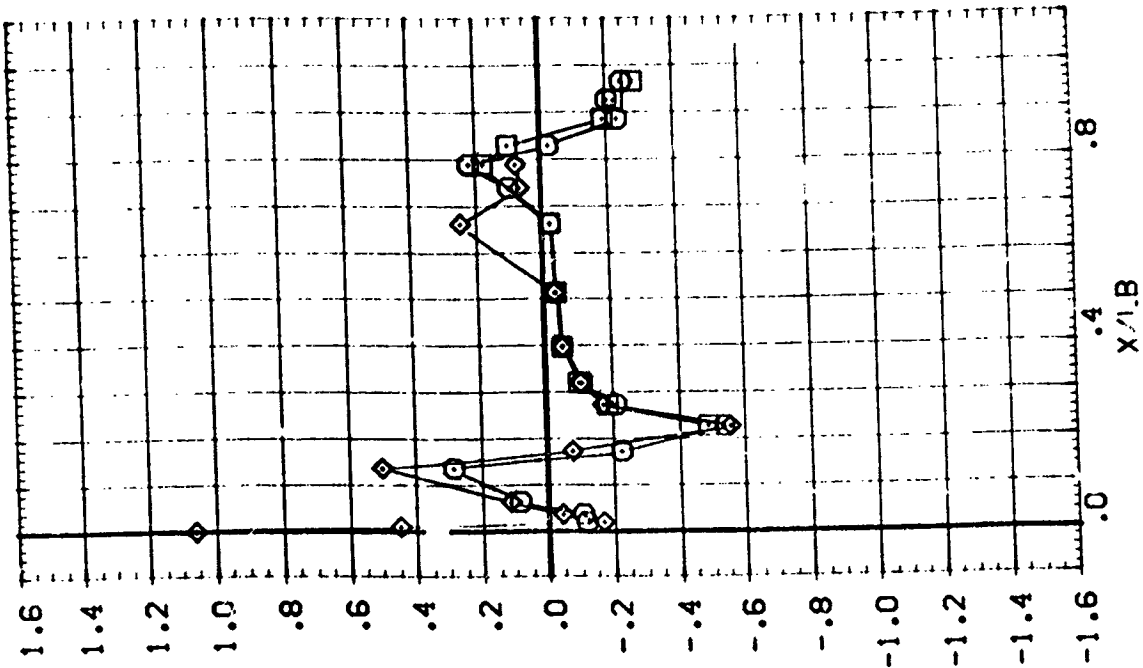
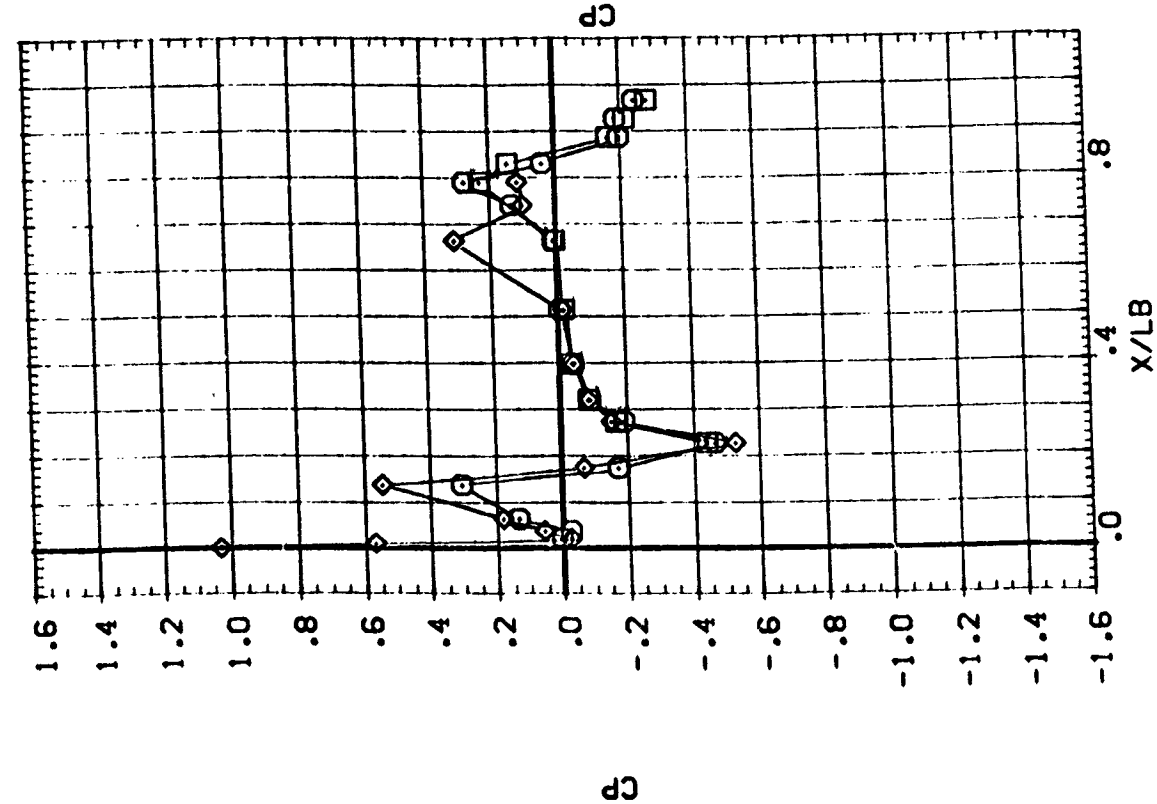
PM: 150.000
 165.000
 180.000

ALPHAT -4.100
 -0.060

MACH .597

PARAMETRIC VALUES

BETAT .000 ORBINC .500
 RUDDER .000 ELEVON .000
 RUDDER .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES



AVES 11-707 :A9 C2A + S3 + T9 ORBITER FUSELAGE (RBM801)

SYMBOL

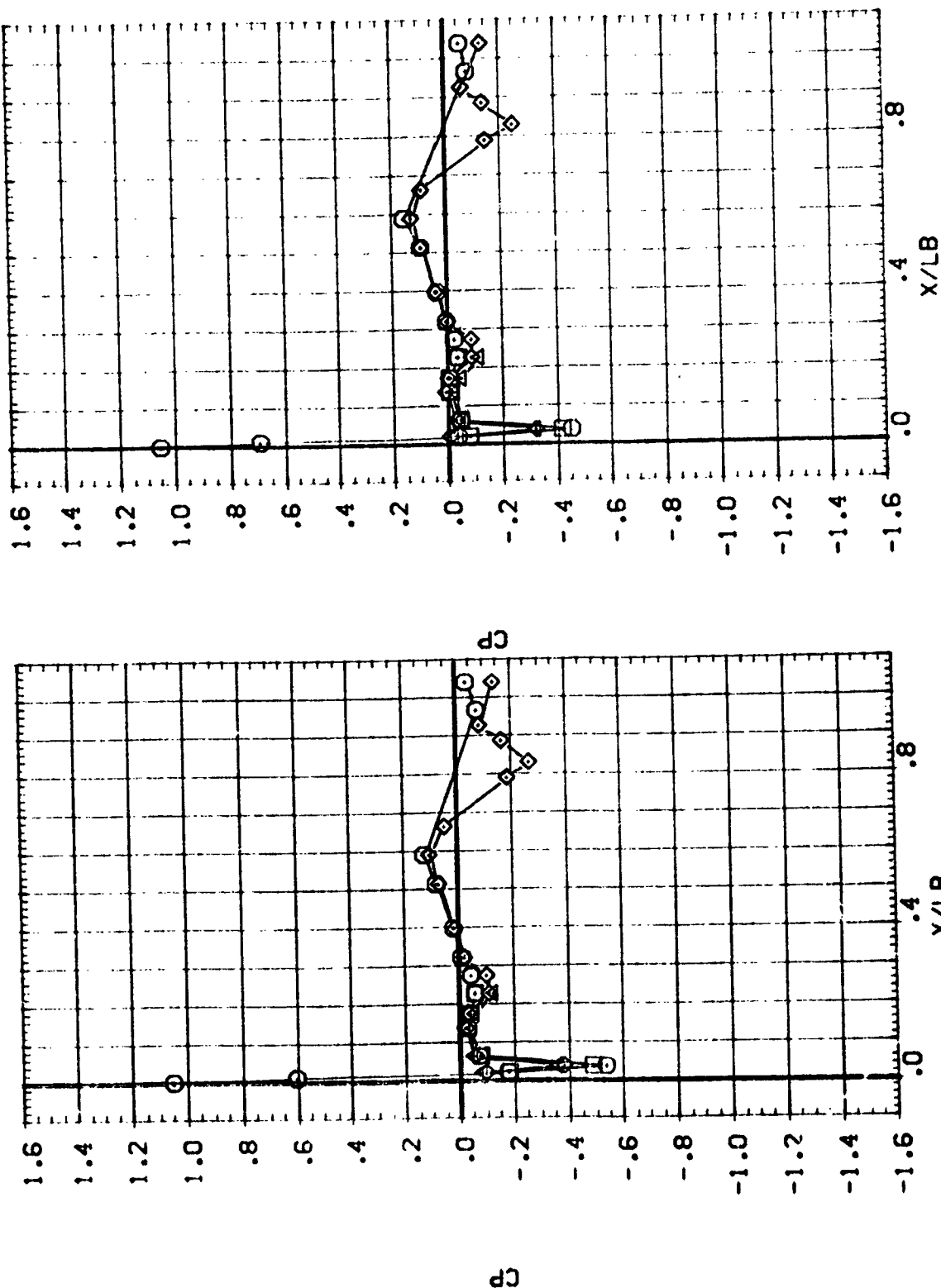
PHI
20.000
40.000
55.700

ALPHAT
3.930
7.950

MACH
.597

PARAMETRIC VALUES

BETAT
RUDER
RUDFLR
1.500
.000
.000
.000



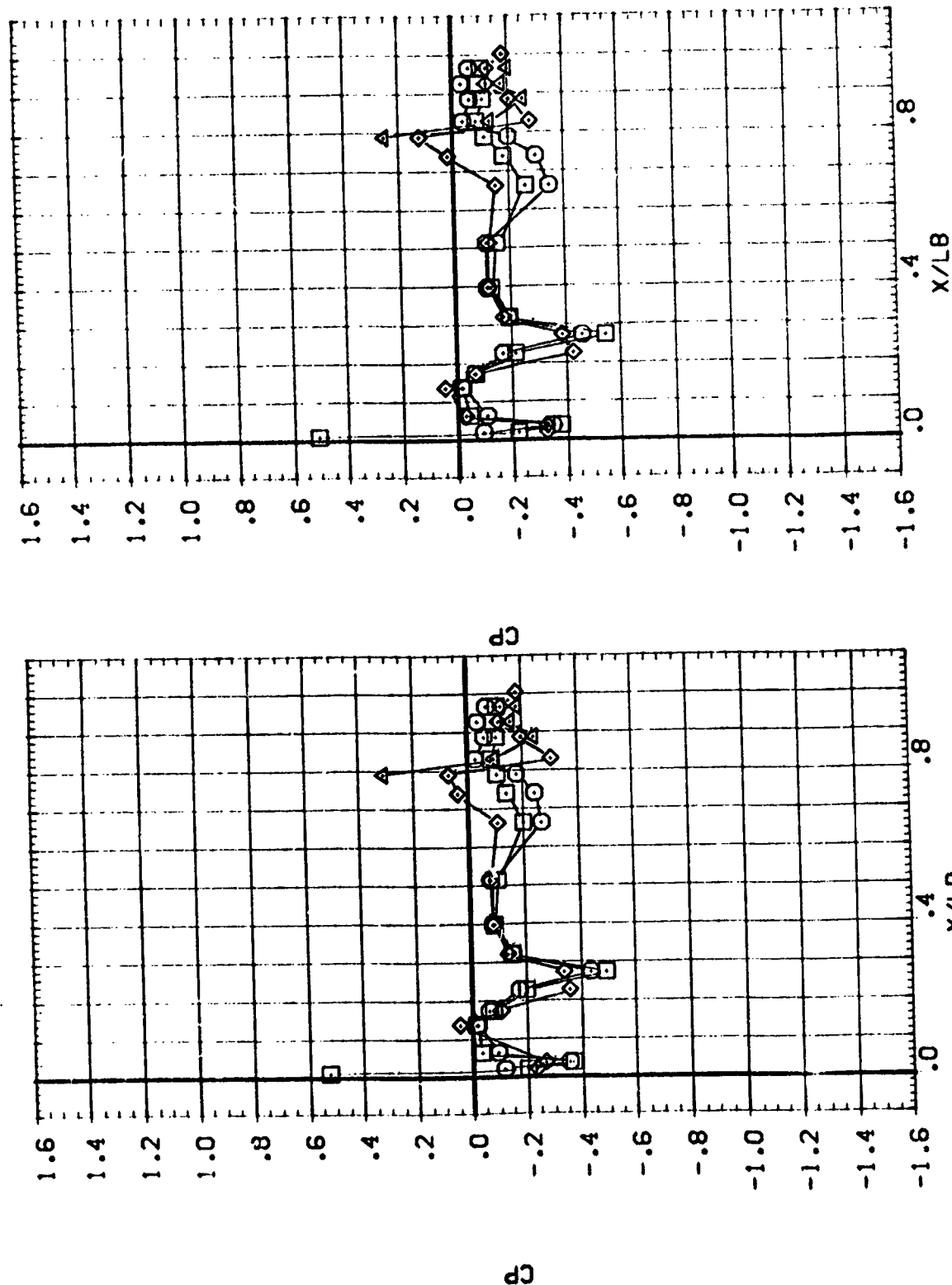
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES



AVES ::-707 1A9 02A - S3 - T9 ORBITER FUSELAGE (RBM01)

PHI	ALPHA	MACH	BETA	ORBIT	ELEV	RUDDER	RUDDER
70.000	3.930	.597	.000	.000	.000	.000	.000
90.000	7.950						
120.000							
135.000							

PARAMETRIC VALUES

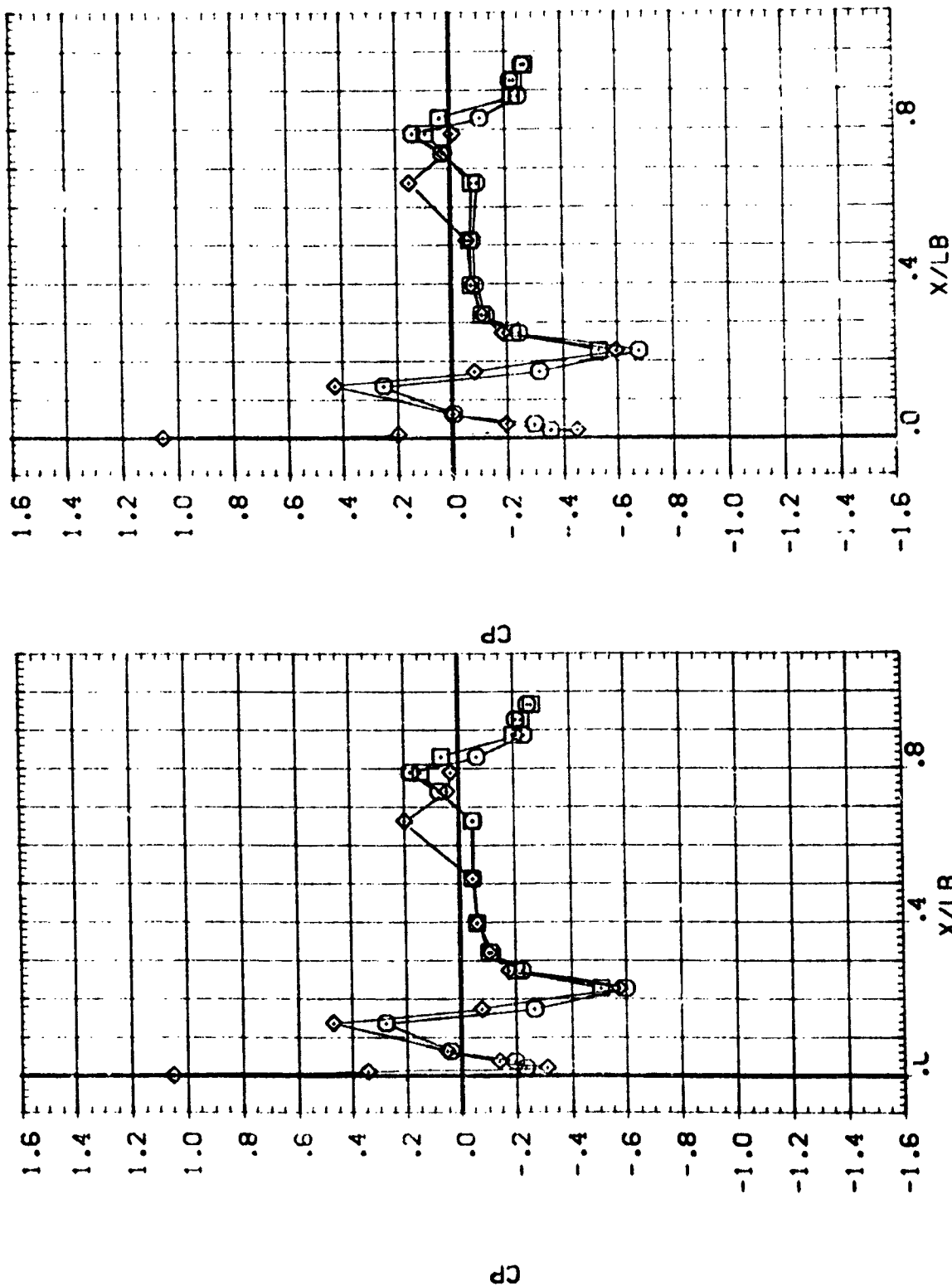


LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

==

AVES 11-707 1A9 02A + S3 + 19 CRBITER FUSELAGE (RBMB01)

SYMBOL	ALPHA	MACH	BETA	CRBITER	ELEV
150.000	3.930	.59	.000	.000	.000
165.000	7.950		.000	.000	.000
180.000			.000	.000	.000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES



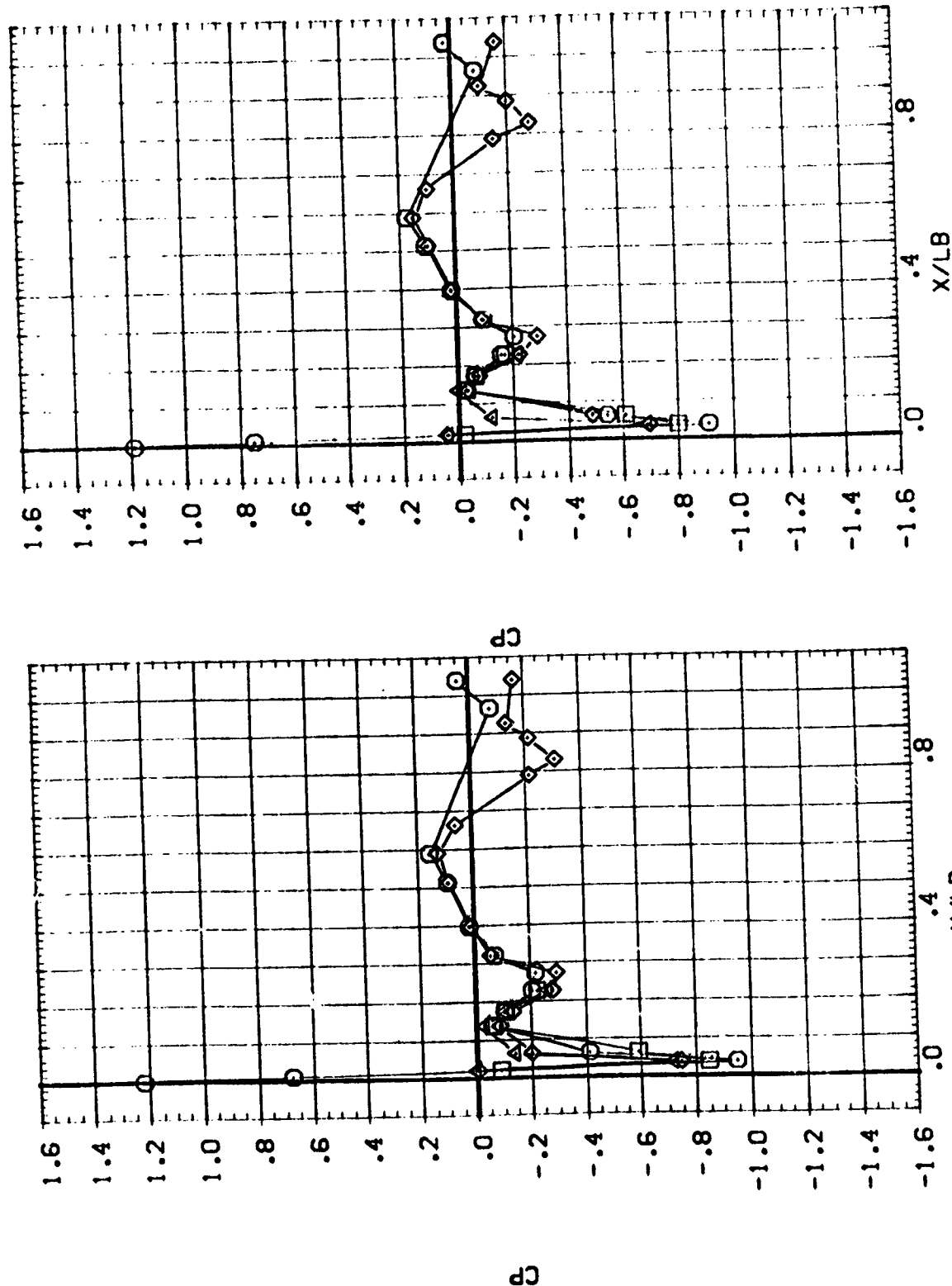
AMES 11-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (RBMB01)

SYMB. \square \circ \triangle

PHI .000
26.000
49.000
55.000

ALPHAT MACH
-4.000 .898
.030

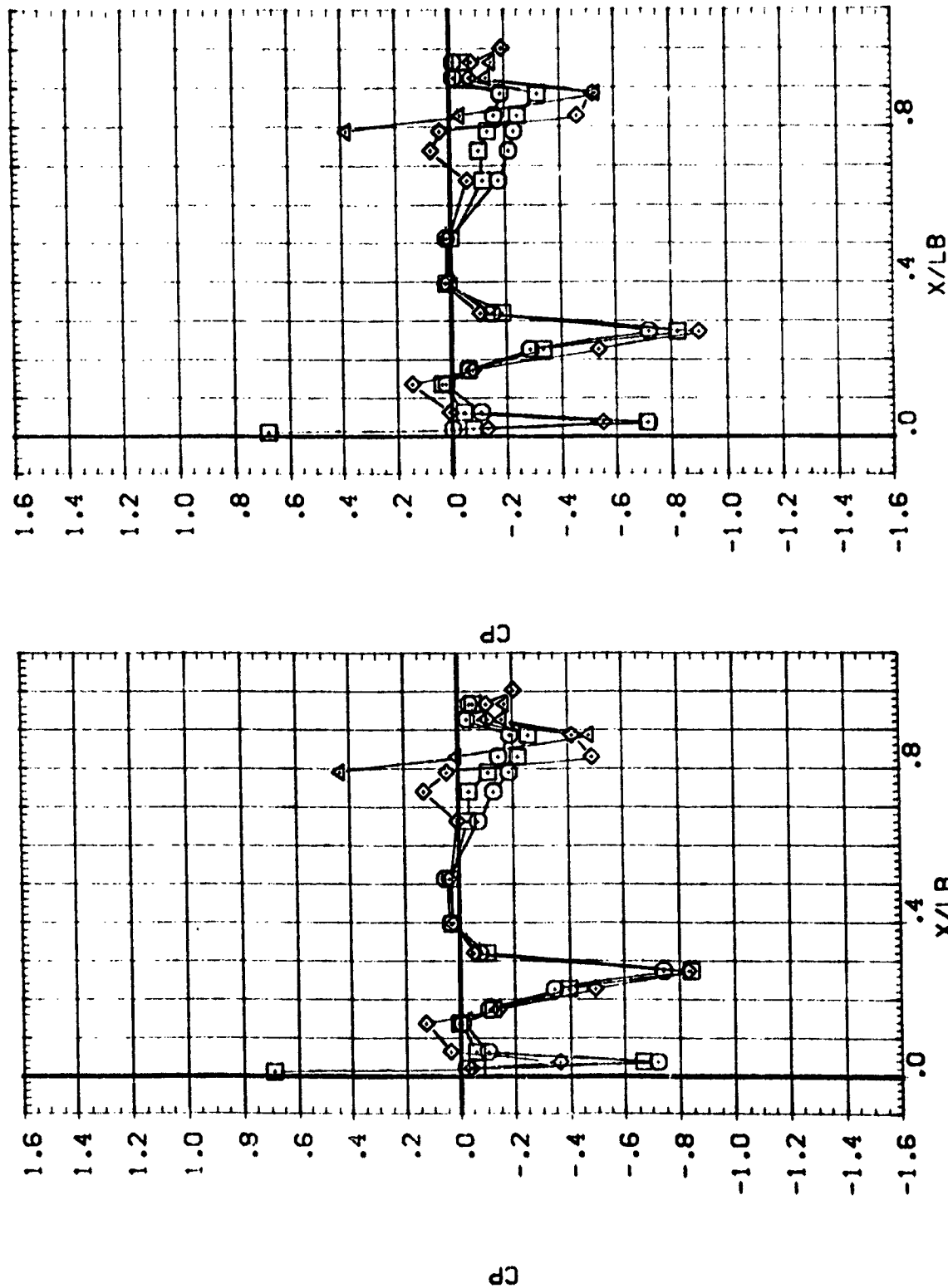
PARAMETRIC VALUES
BETA² .000 ORBINC 1.500
RUDDER .000 ELEVEN .000
RUDDER .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AVES 11-707 :A9 Q2A + S3 + T9 ORBITER FUSELAGE (RBMB01)

SYMBOL	PHI	ALPHAT	MACH	BETAT	GRABING	ELEVON
□	70.000	-4.000	.899	.000	.000	.000
○	90.000	.000		.000	.000	.000
◇	120.000					
△	135.000					



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES



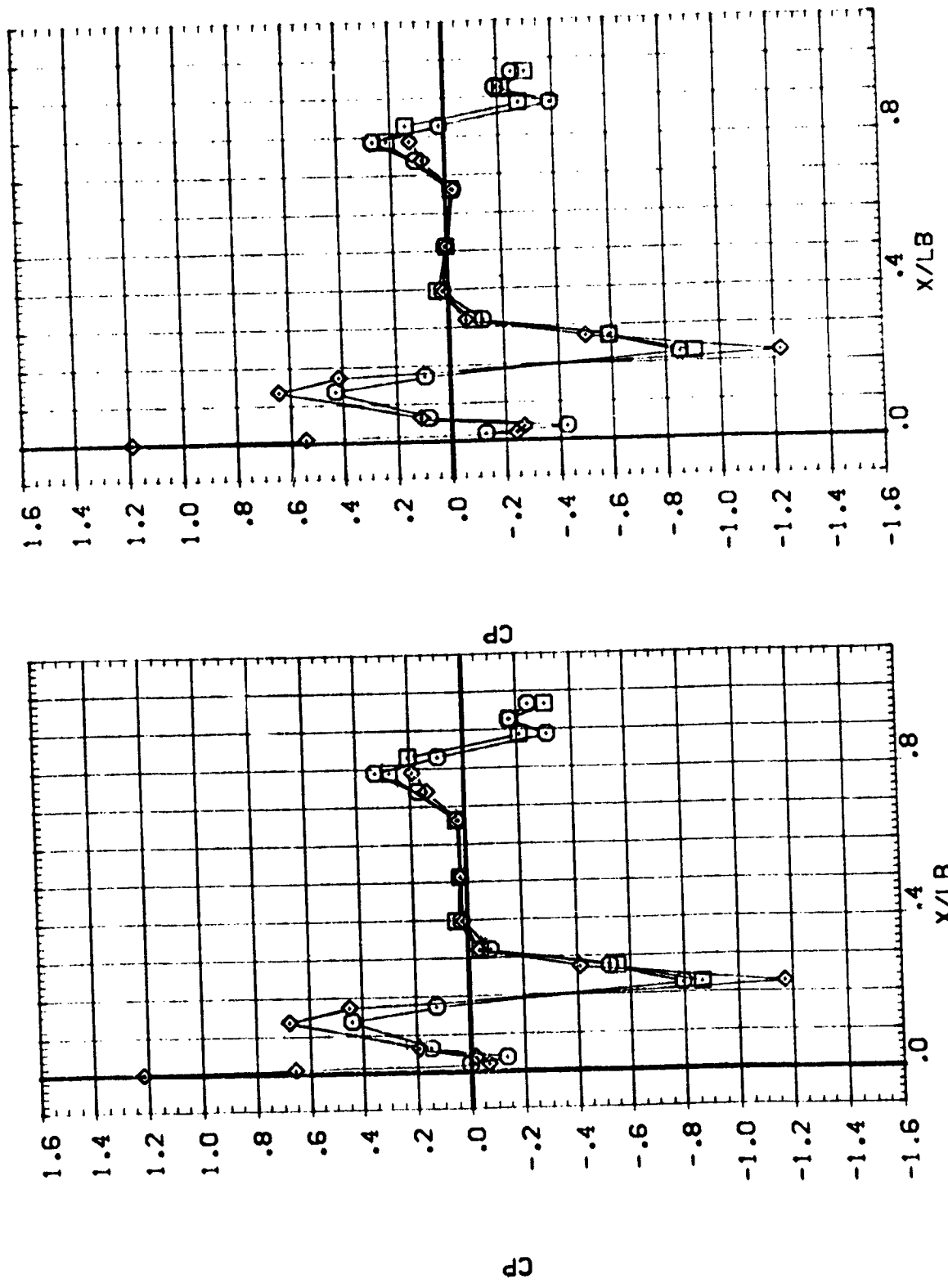
AVES 11-707 1A9 02A + S3 + T9 ORBITER FUSELAGE RBM012

SYMBOL
O
◇

PHI
150.000
165.000
180.000

ALPHAT MACH
-4.000 .698
.030

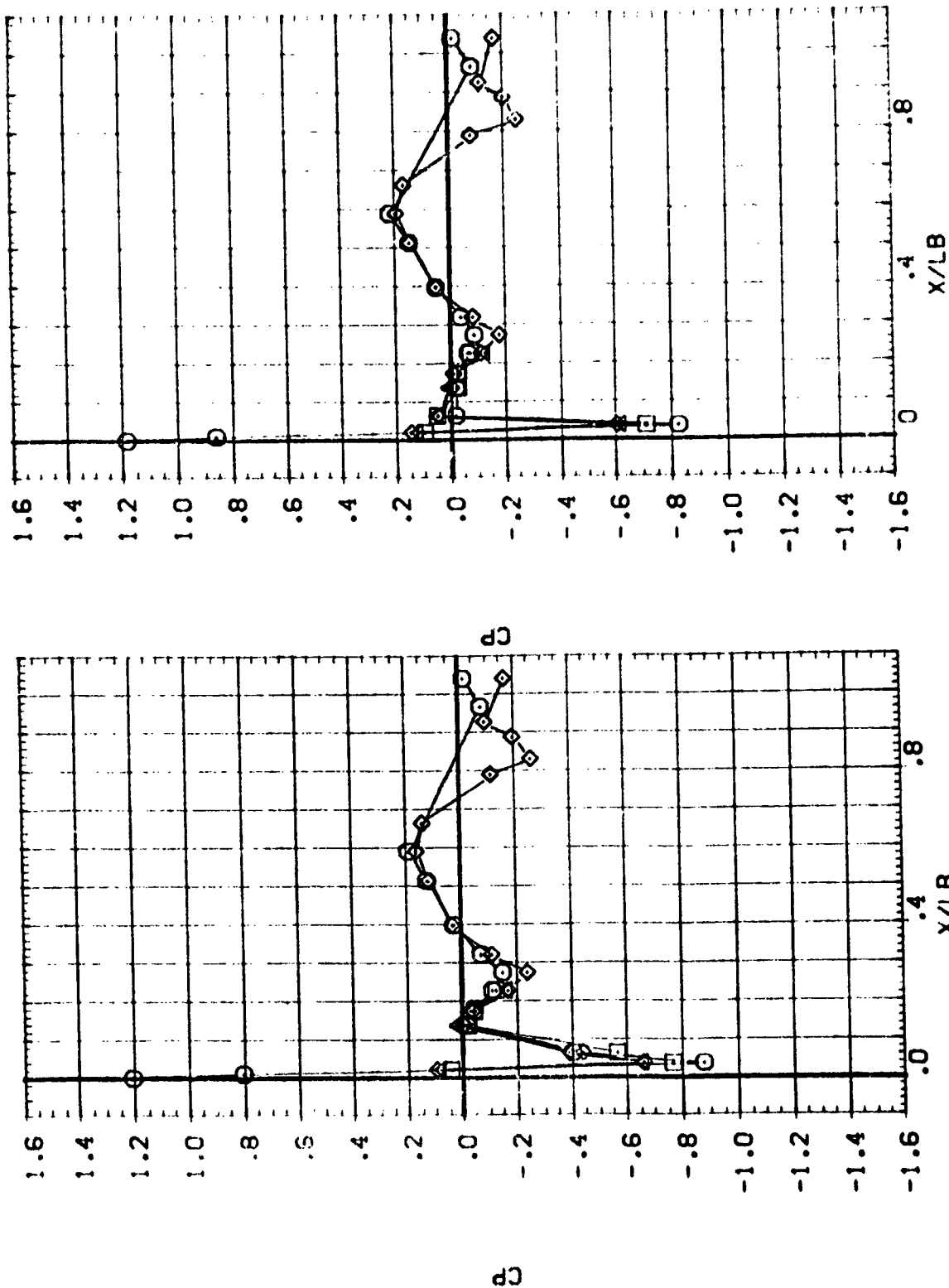
PARAMETRIC VALUES
BETAT .000 ORBITING .500
RUDDER .000 ELEVON .000
RUDDER .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

PARAMETRIC VALUES	
.000	CRBINC
.000	CRBINC
.000	CRBINC
.000	CRBINC

SYMBOL	AMT	ALPHABET	WACH
0	.300	4.030	.899
1	20.000	8.030	
2	40.000		
3	55.000		



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES



AMES 11-707 1A9 C2A + S3 + T9 ORBITER FUSELAGE (RBMB01)

SYMBOL

70.000
90.000
120.000
135.000

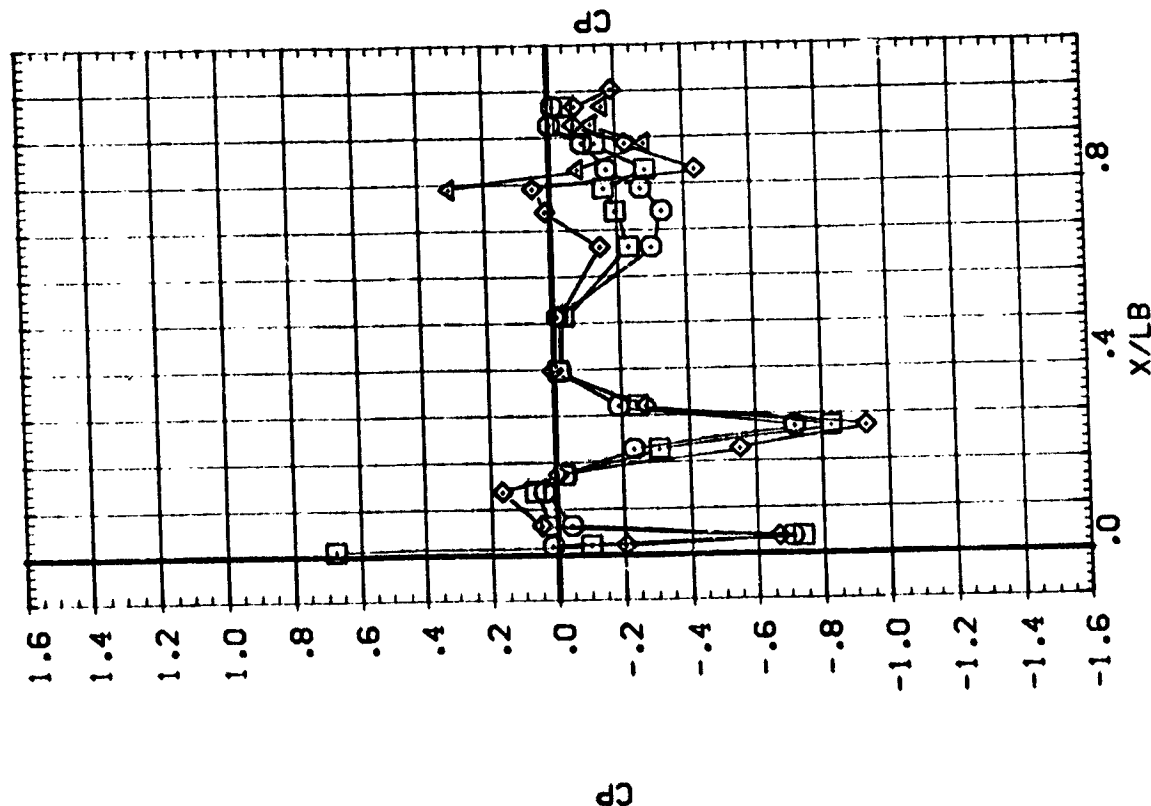
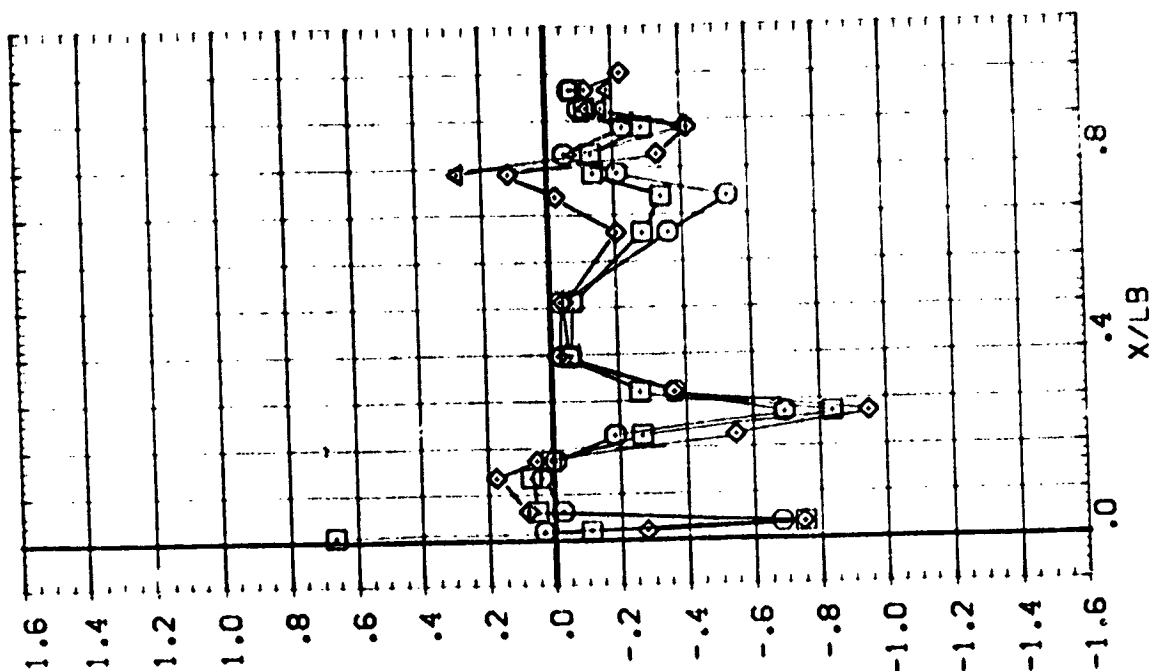
ALPHAT
4.030
8.030

MACH
.899

PARAMETRIC VALUES

BETAT
RUDDER
RUDFLR

.000
.000
.000
1.500
.000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

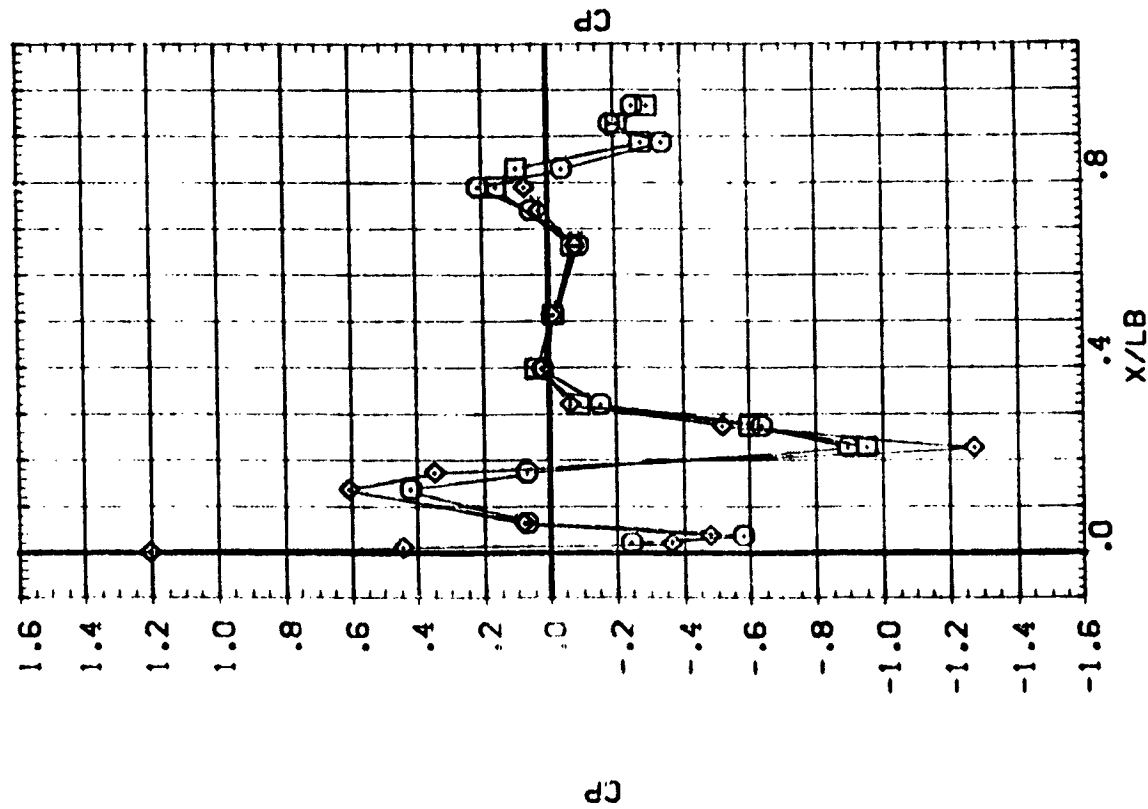
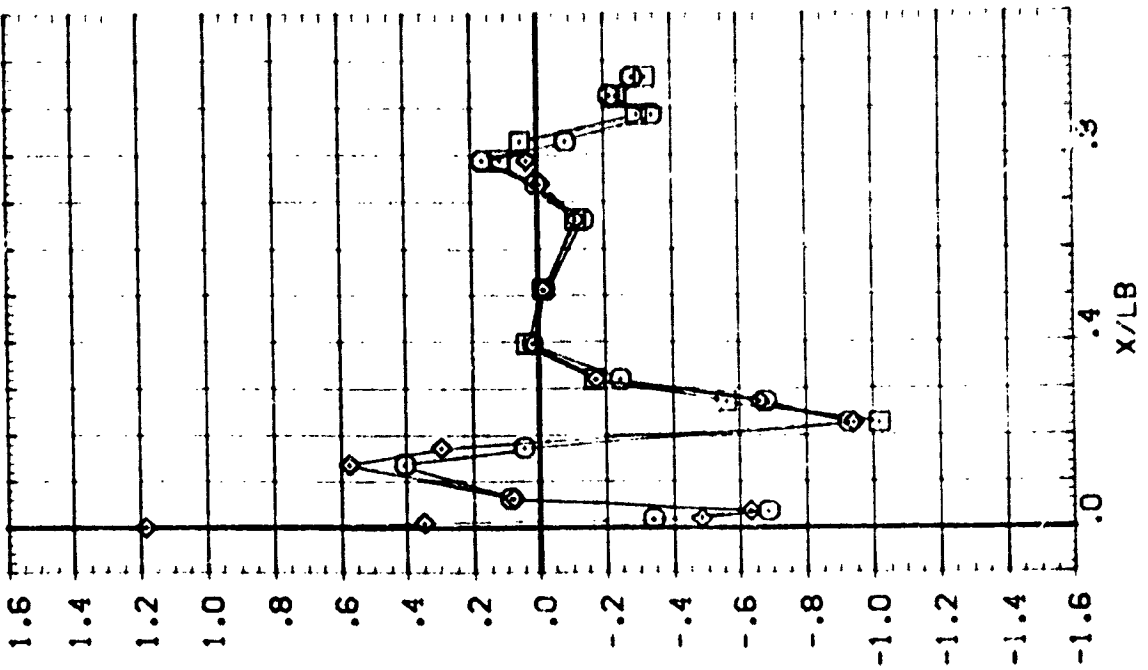
AVES 11-707 1A9 02A + S3 + 19 ORBITER FUSELAGE (RBM301)

PARAMETRIC VALUES

BETAT	.000	0.991	1.500
R00DR	.000	0.991	1.500
R00FLR	.000	0.991	1.500

Symbol

150.000	ALPHAT	WACH
165.000	4.030	.899
180.000	8.030	





AMES : 1-7C7 1A9 C2A + S3 + T9 ORBITER FUSELAGE (RBMB01)

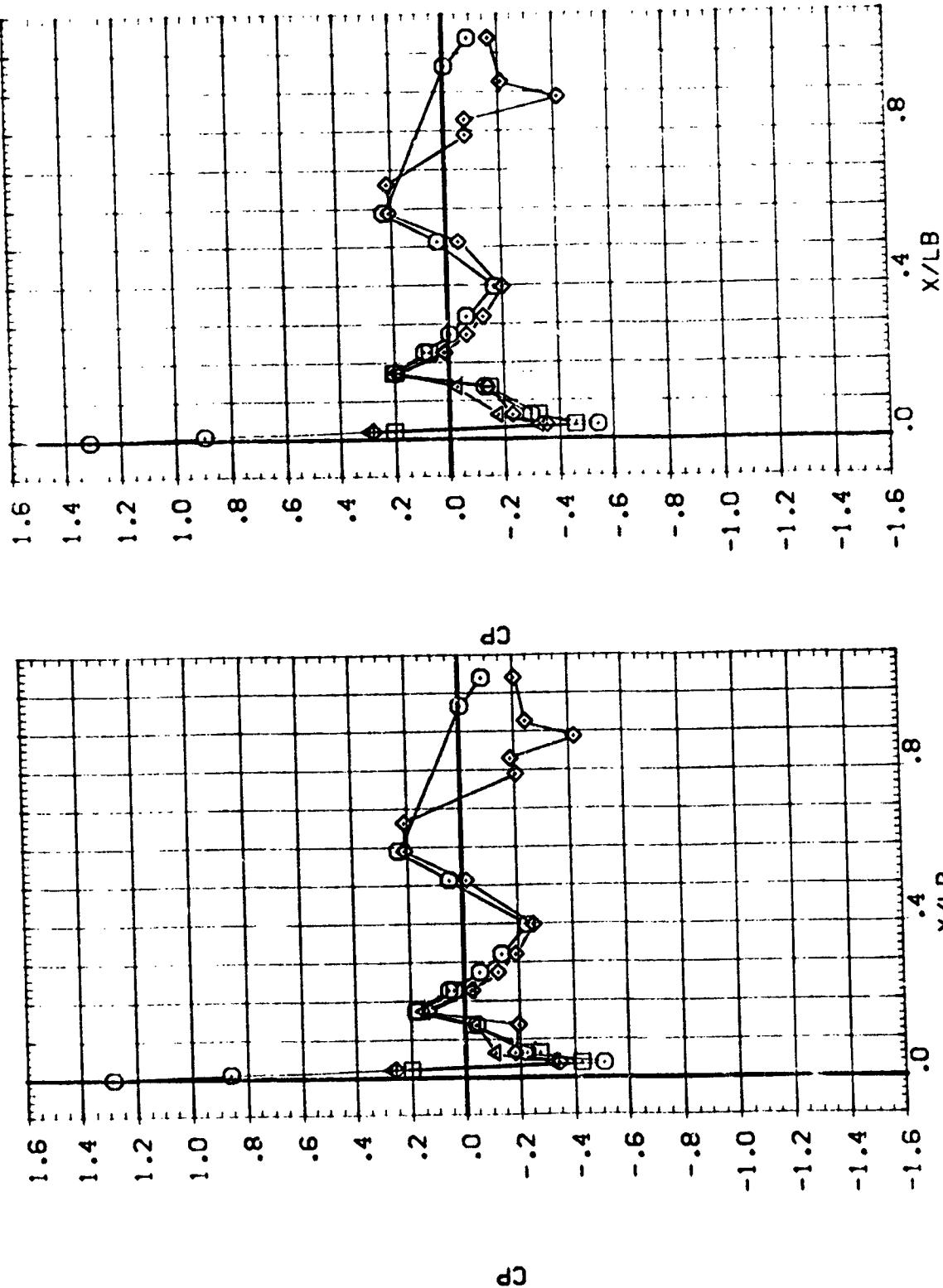
SYMBOL
○ □ ◇ △

PHI
.000
20.000
40.000
55.000

ALPHA
-3.980
.030

MACH
1.104

PARAMETRIC VALUES
BETA
.000
RUDER
.000
DRBINC
1.500
ELEVON
.000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

==

AVES 11-707 1A9 C2A + S3 + 19 CRBITER FUSELAGE (RBMB01)

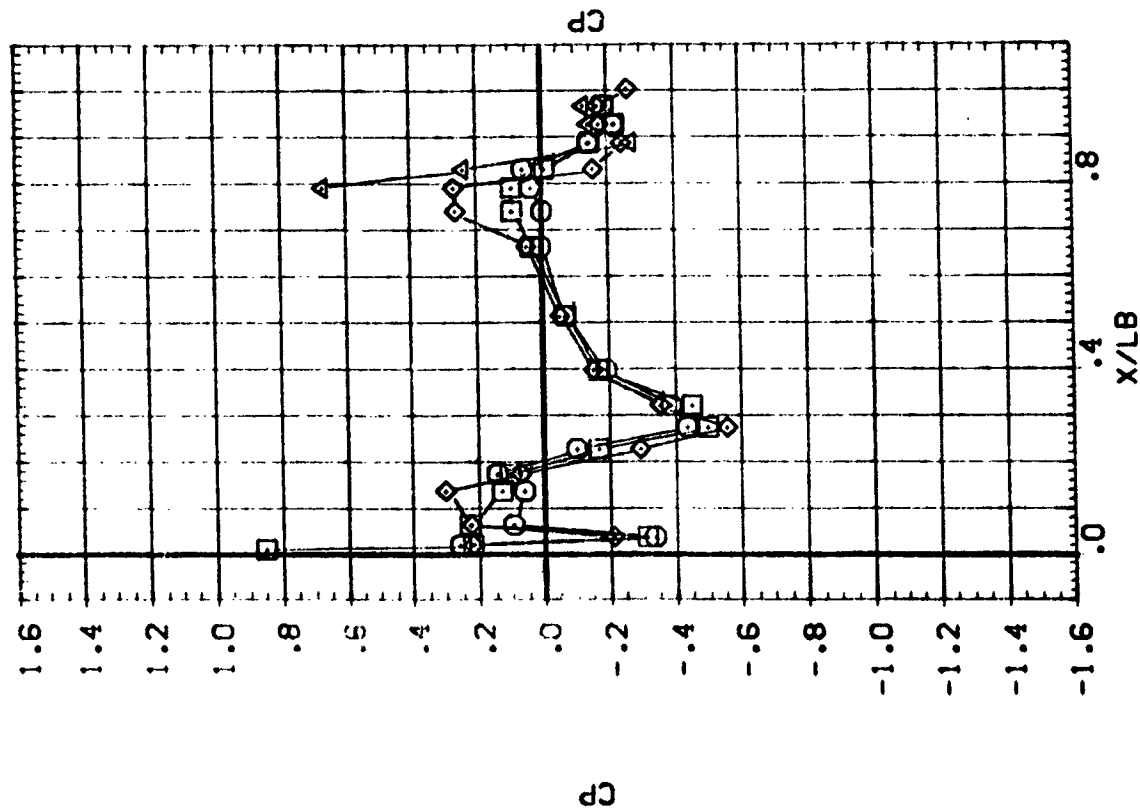
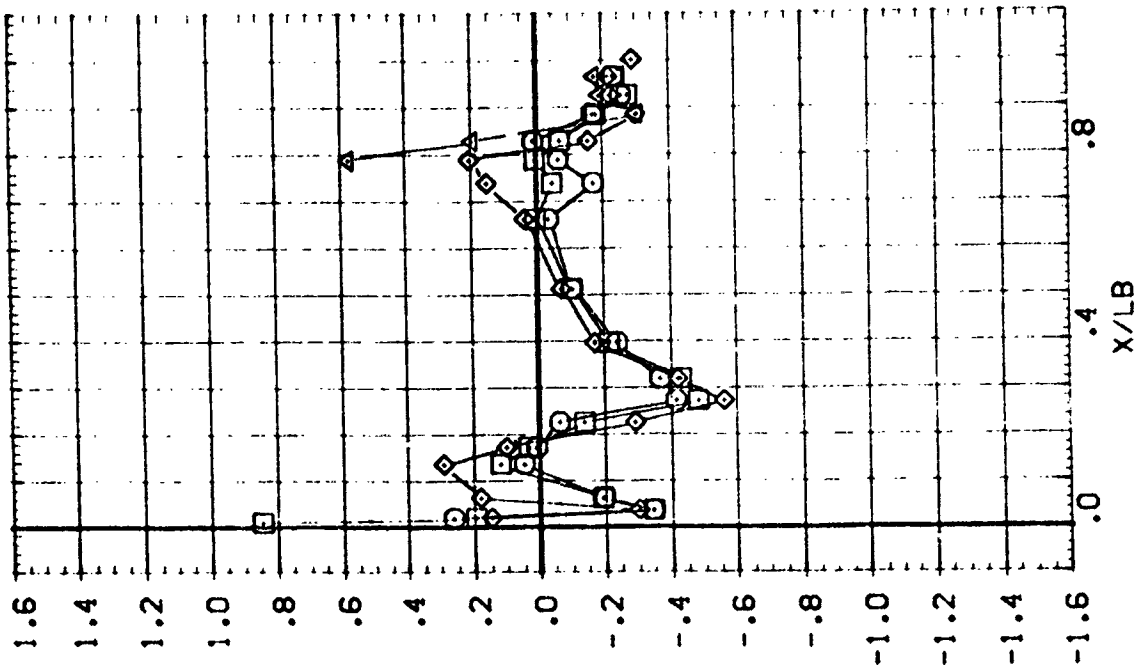
PARAMETRIC VALUES
 BETAT .000 CRBITC 1.500
 RUDDER .000 ELEVON .000
 RUFLR .000

SYMBOL
 O 70.000
 □ 90.000
 ◇ 120.000
 △ 150.000

PHI
 70.000
 90.000
 120.000
 150.000

ALPHA
 -3.980
 .030

MACH
 1.104



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES



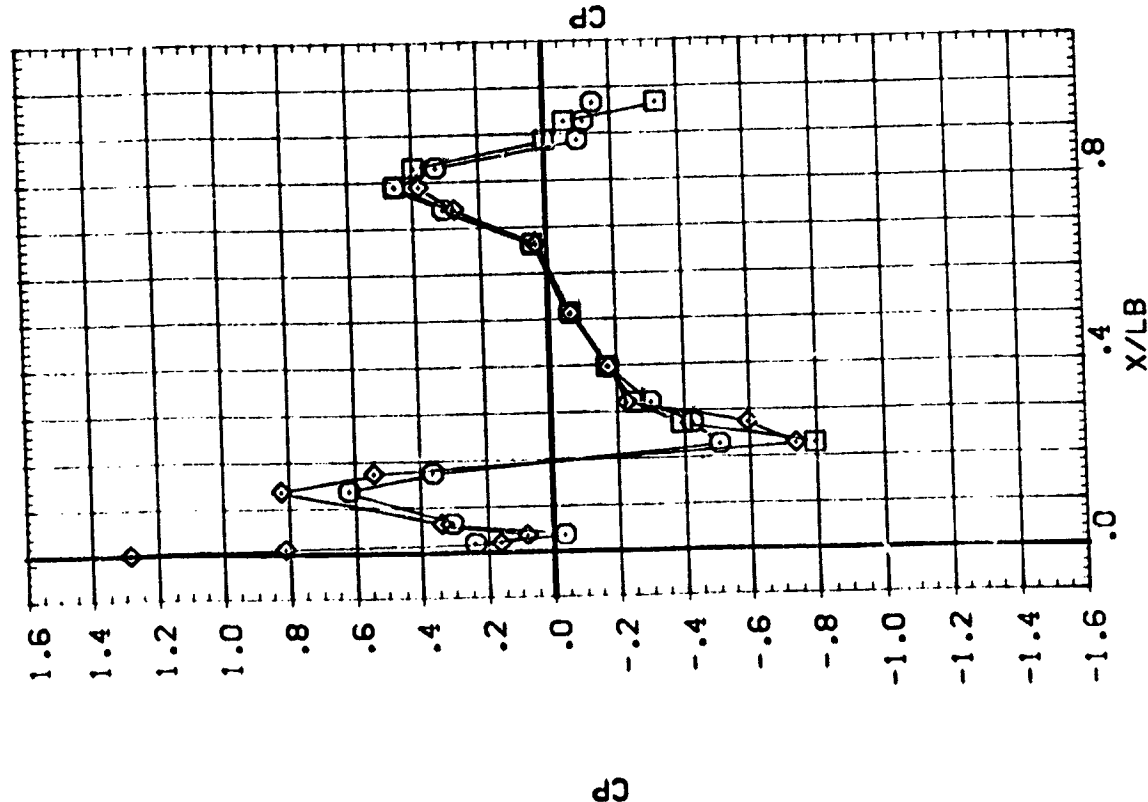
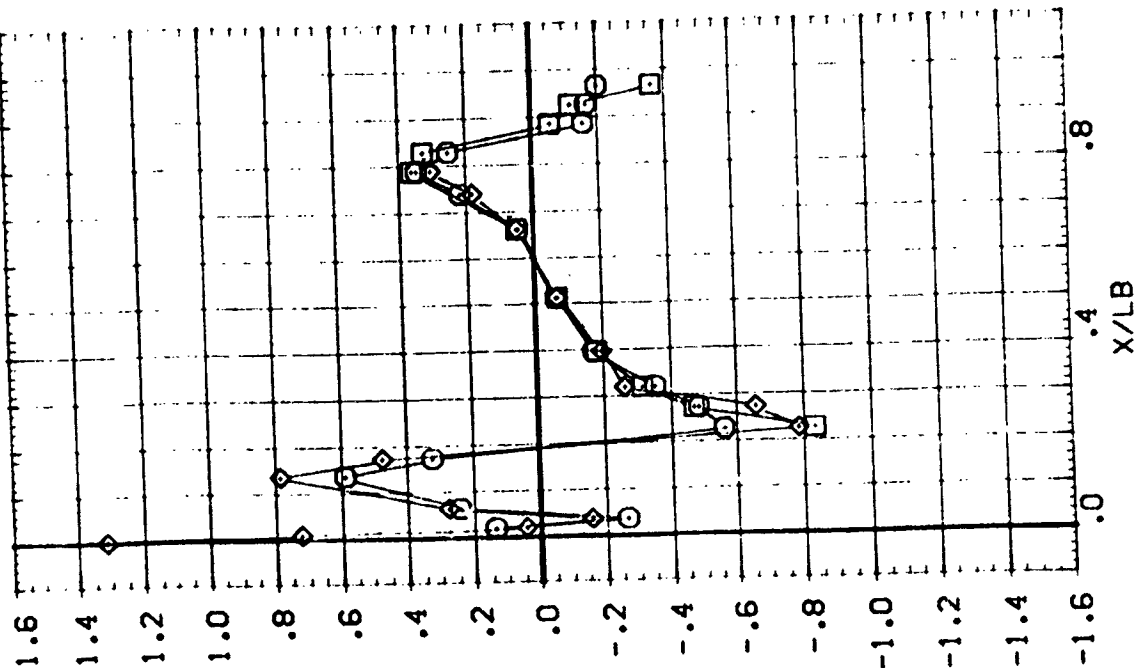
9-26-78

AVES 11-707 1A9 C2A + S3 + T9 ORBITER FUSELAGE (R3M01)

SYMS
150.000
165.000
180.000

ALPHAT MACH
-3.980 1.104
.030

PARAMETRIC VALUES
BEAT .000 .000
RUDDER .000 .000
RUDFLR .000 .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

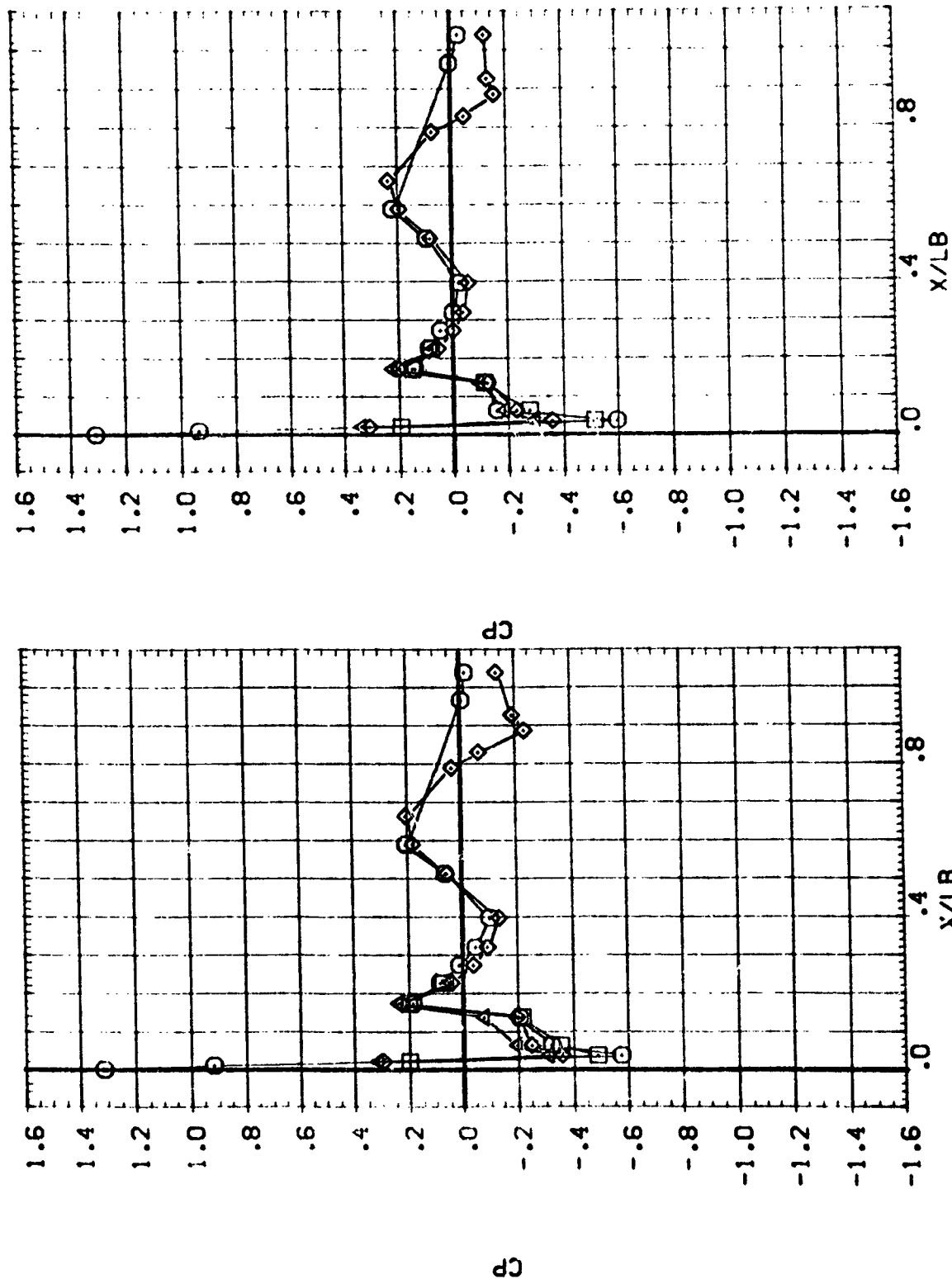


AVES :1-707 1A9 02A + S3 + 19 ORBITER FUSELAGE (RBMB01)

SYMBOL
○
◇
△

PMI ALPHAT WACH
.000 4.020 1.102
20.000 7.980
40.000
55.000

PARAMETRIC VALUES
BETAT .000 ORBINC 1.500
RUDDER .000 ELEVON .000
RUOFLR .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES



11-707

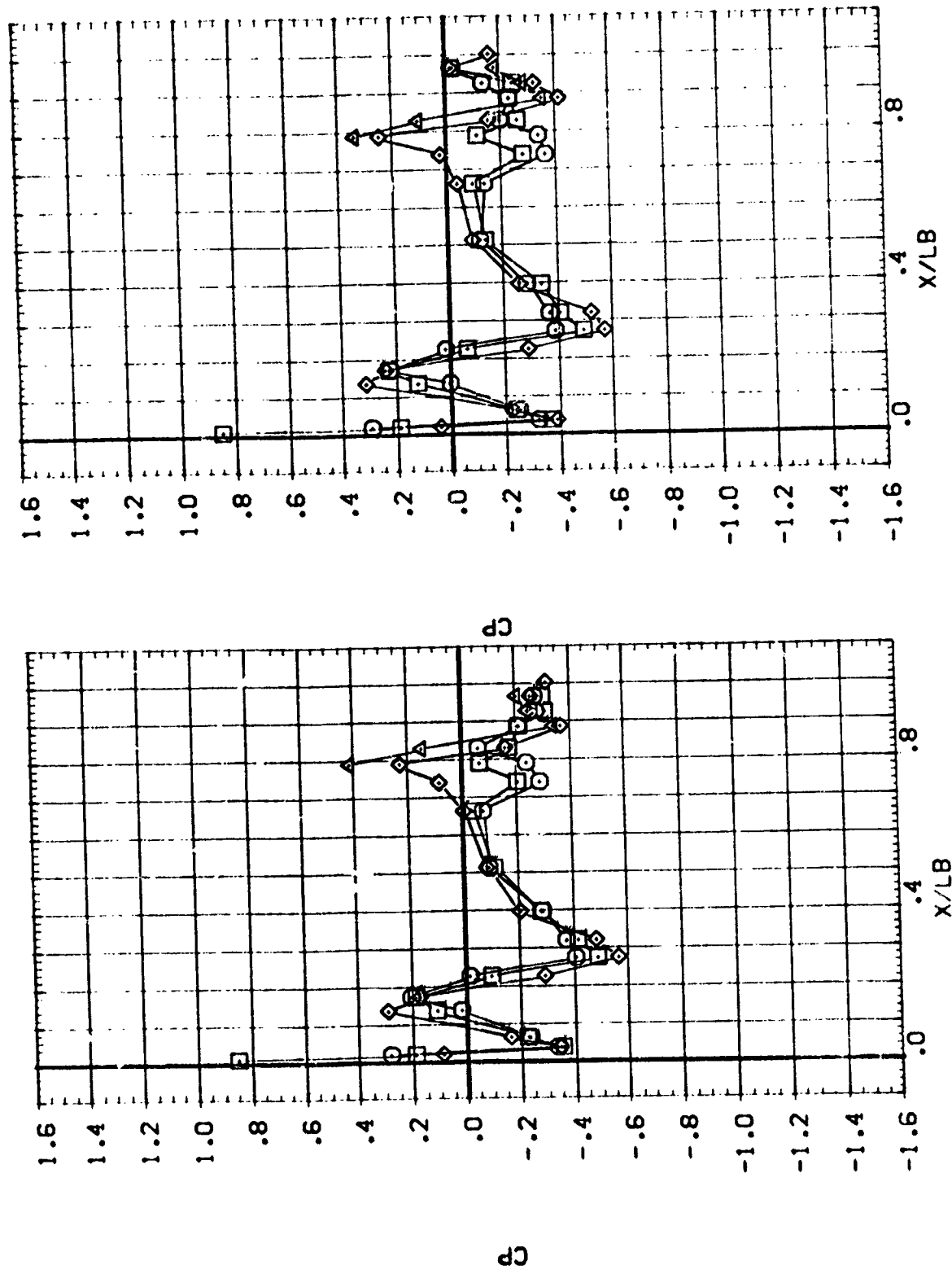
AVES 11-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (RBM01)

PARAMETRIC VALUES
 .000 ORB: C .500
 .000 ELEV: .000
 .000

BETA
 RUDDER
 RUDDER

PHI: ALPHAT MACH
 70.000 4.020 1.102
 90.000 7.980
 120.000
 135.000

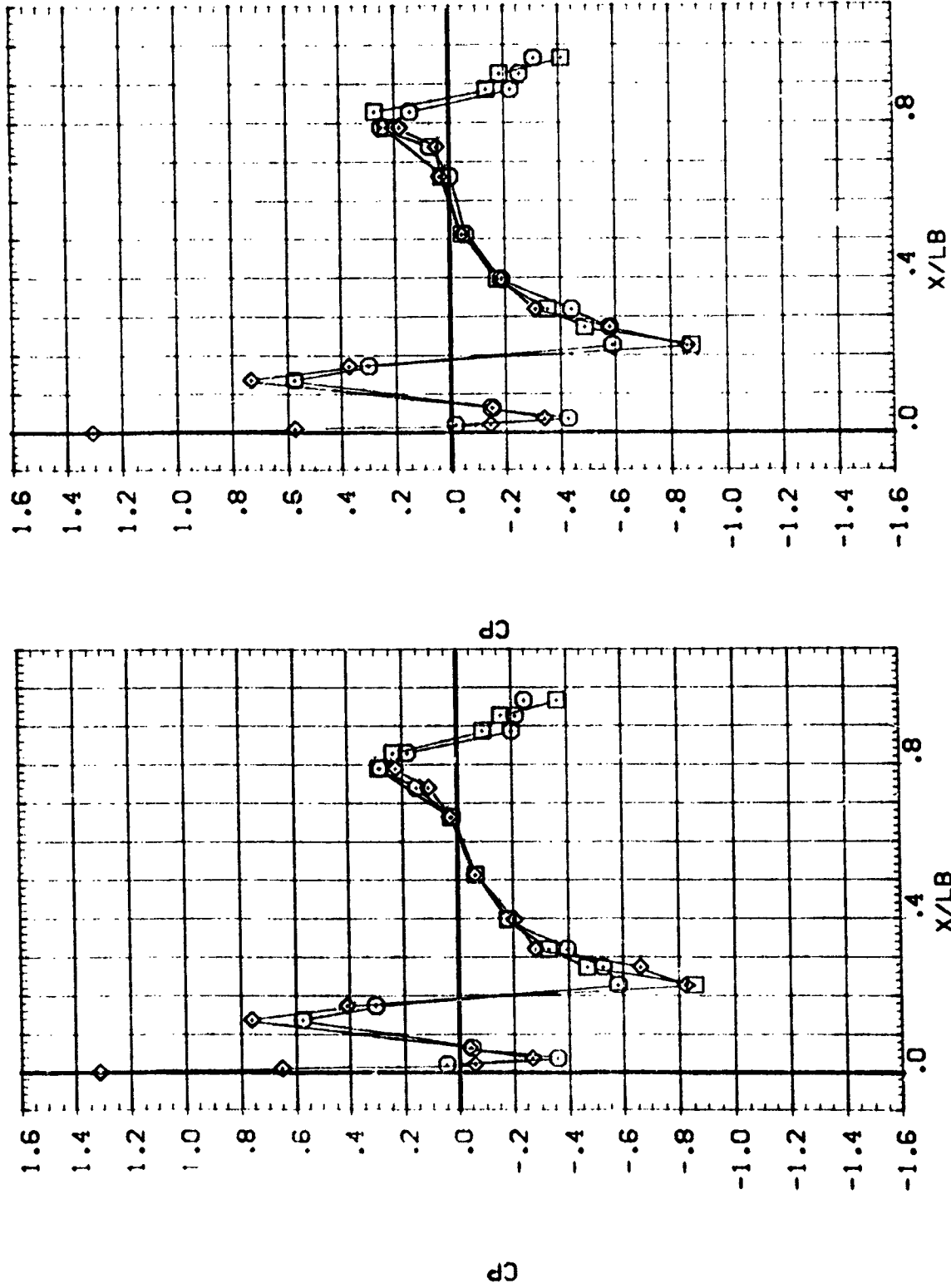
SYMBOL
 O
 □
 ◇
 △



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AVES 11-707 :A9 C2A + S3 + T9 ORBITER FUSELAGE (RBM801)

SYMBOL	P ₀	A ₀ (M ²)	MACH	BETA ⁺	PARAMETRIC VALUES
○	50.000	4.020	1.102	RUDDER	.000 ORBITING
◇	65.000	7.980		RUDFLR	.000 ELEVON
	80.000				.000
					1.500
					.000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES



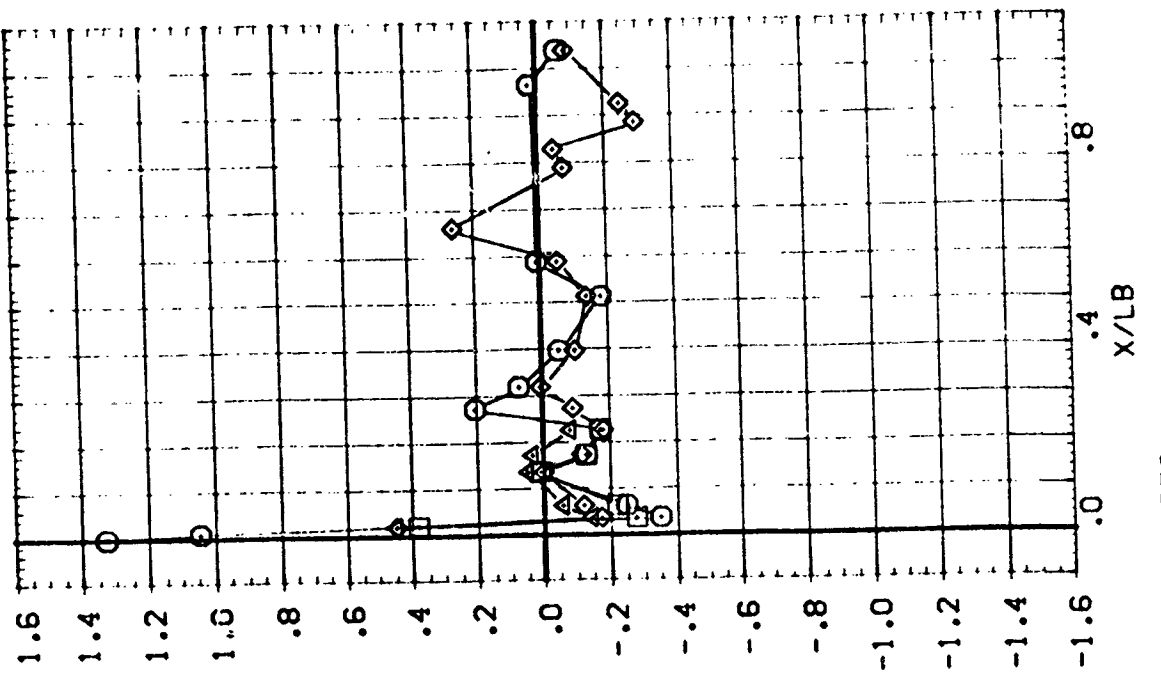
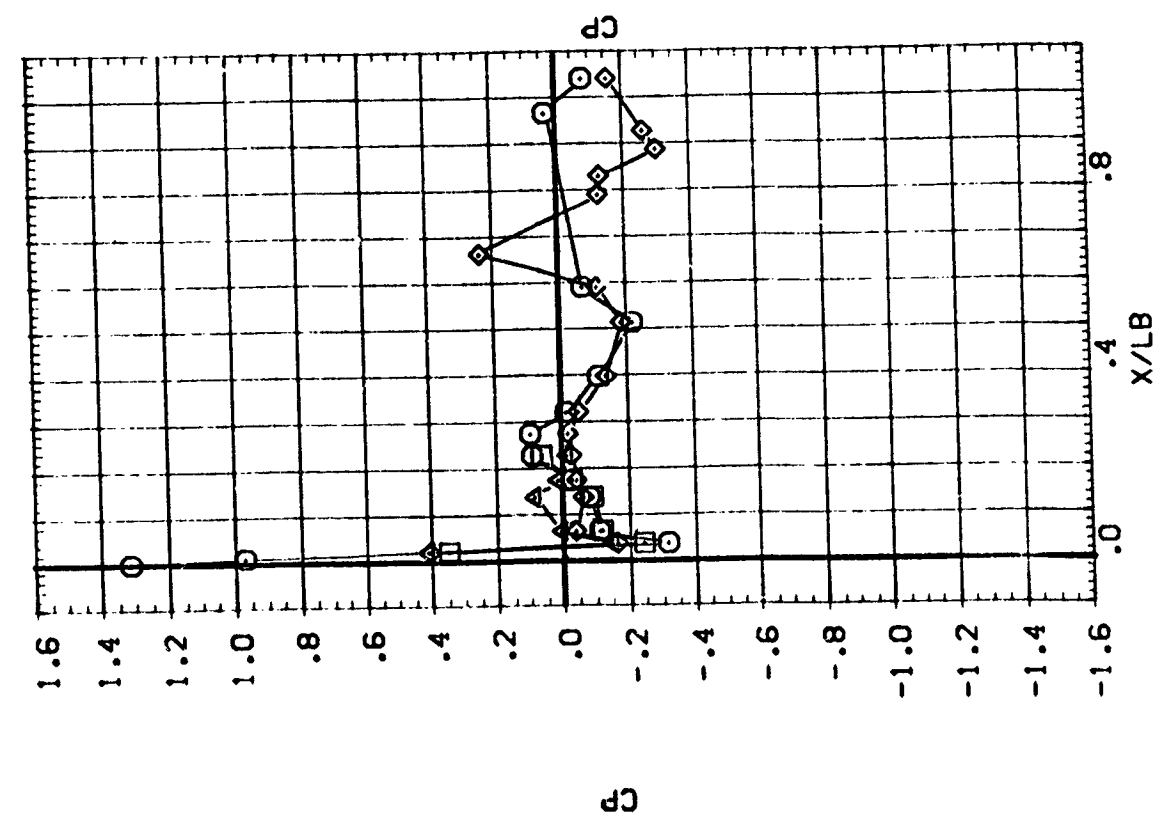
AVES 11-707 1A9 02A - S3 + T9 ORBITER FUSELAGE (RBM01)

SYMBOL

PR: .000
20.000
40.000
55.000

ALPHAT MACH
-4.03C 1.248
.040

PARAMETRIC VALUES
BETAT .000 ORBITINC 1.500
RUDDER .000 ELEVON .000
RUDER .000

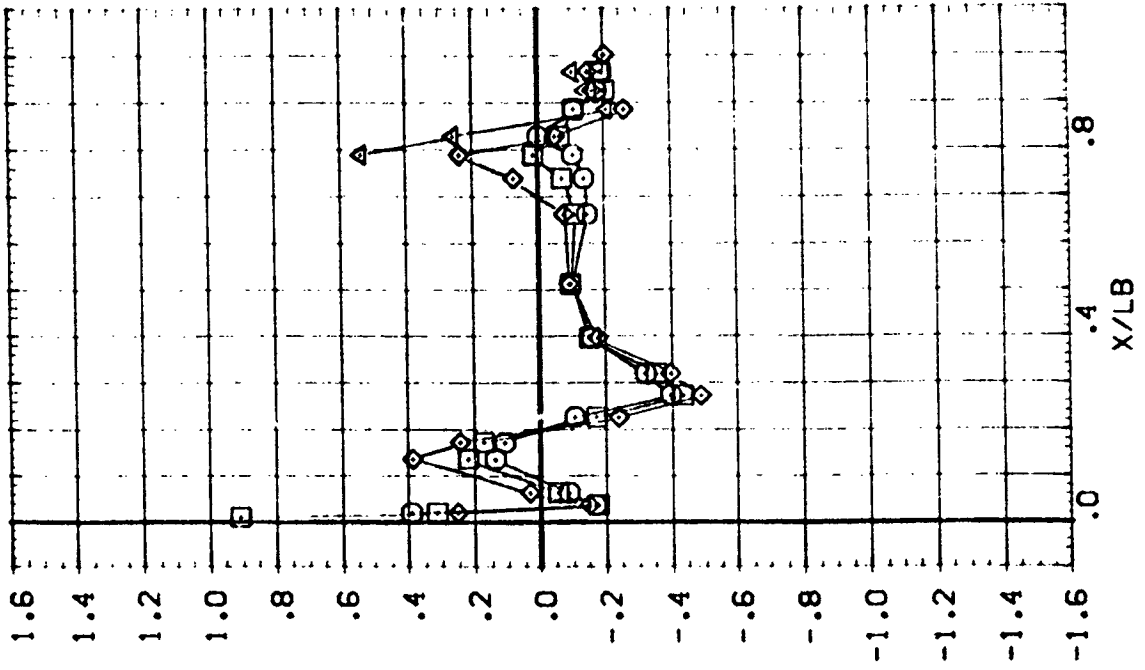
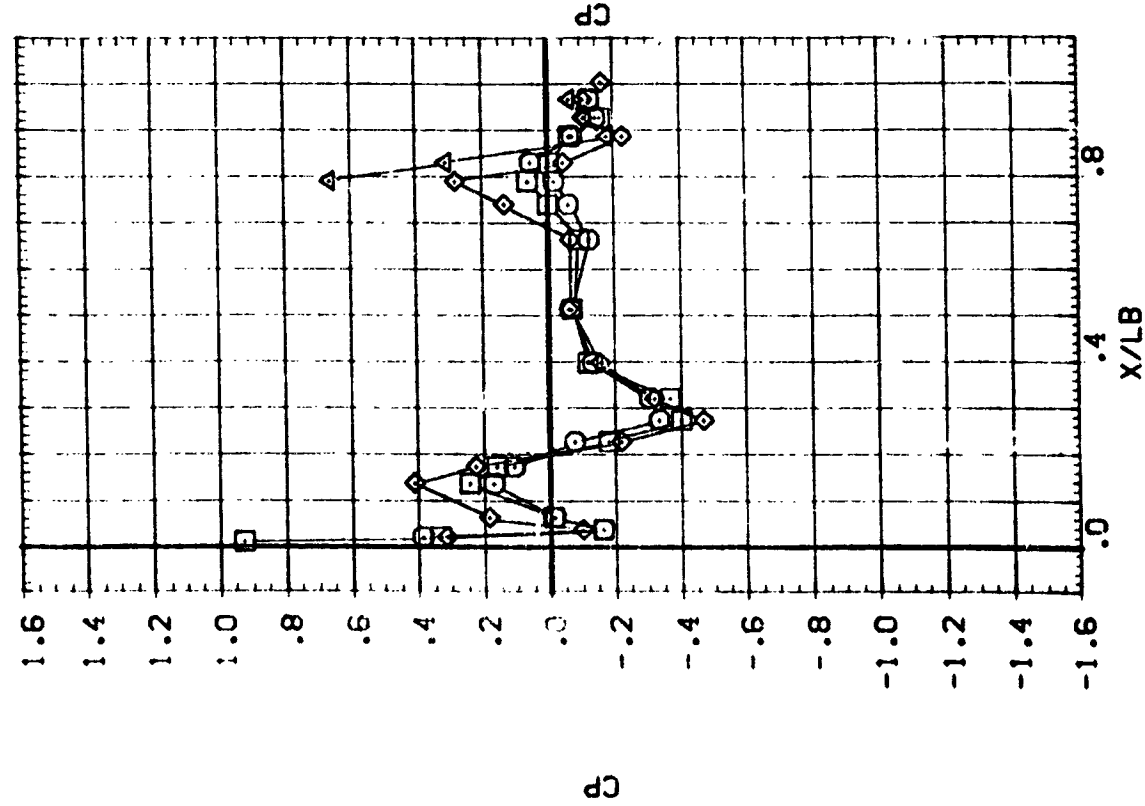


AMES 11-707 :A9 C2A + S3 + 19 ORBITER FUSELAGE (RBMB01)

SYNOPSIS
 70.000
 92.000
 120.000
 135.000

ALPHAT WACH
 -4.030 1.248
 .34C

PARAMETRIC VALUES
 BETA1 .000 ORBINC 1.500
 RLODR .000 ELEVON .000
 RLOFLR .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

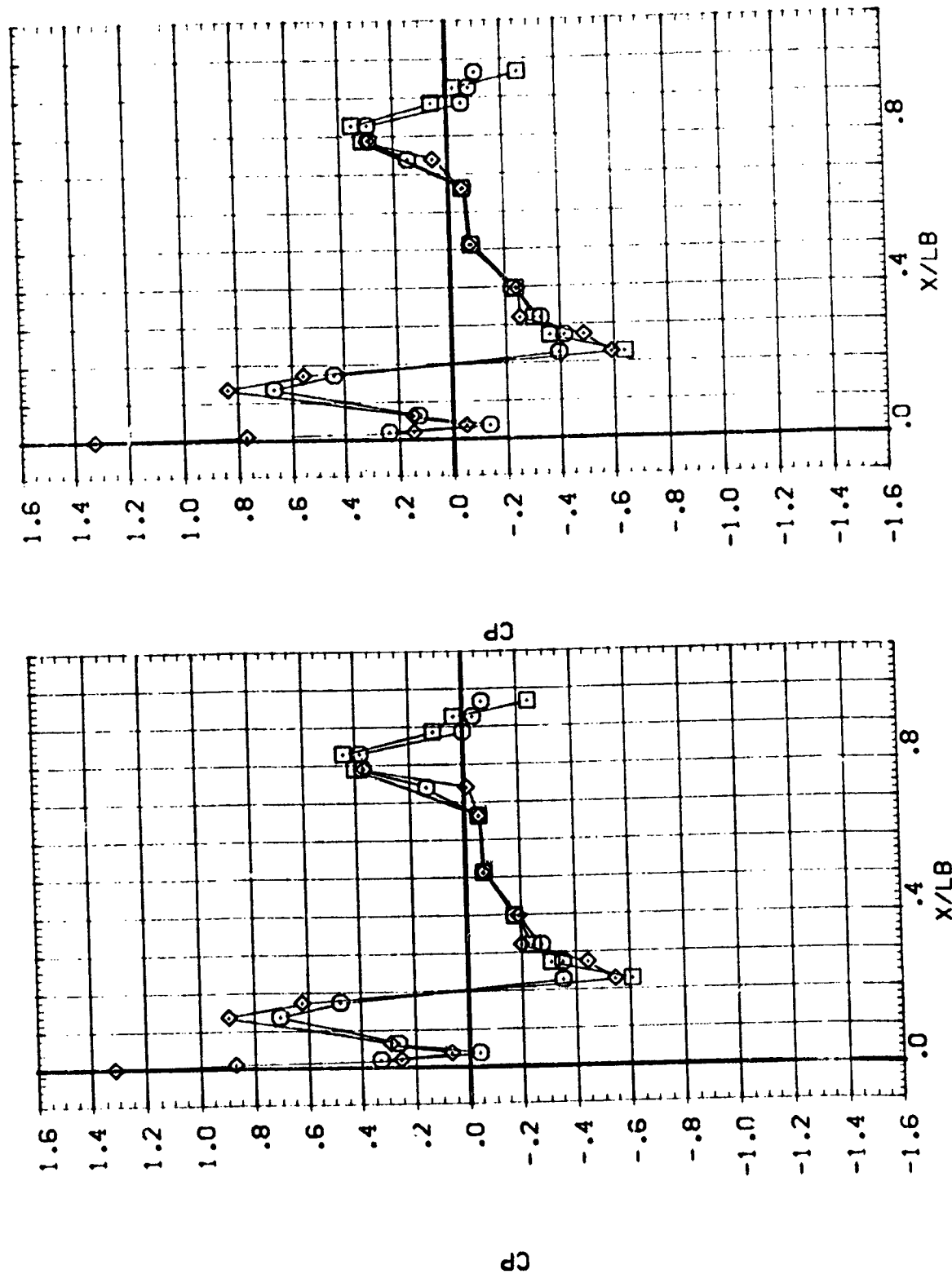


AMES 11-707 :A9 C2A + S3 + T9 ORBITER FUSELAGE (RBM301)

SYMBOL
 ○
 □
 ◇

PMI ALPHAT MACH
 150.000 -4.030 1.248
 165.000 .040
 180.000

PARAMETRIC VALUES
 BETAT .000 ORBITING 1.500
 RUDDER .000 ELEVON .000
 RUDDER .000

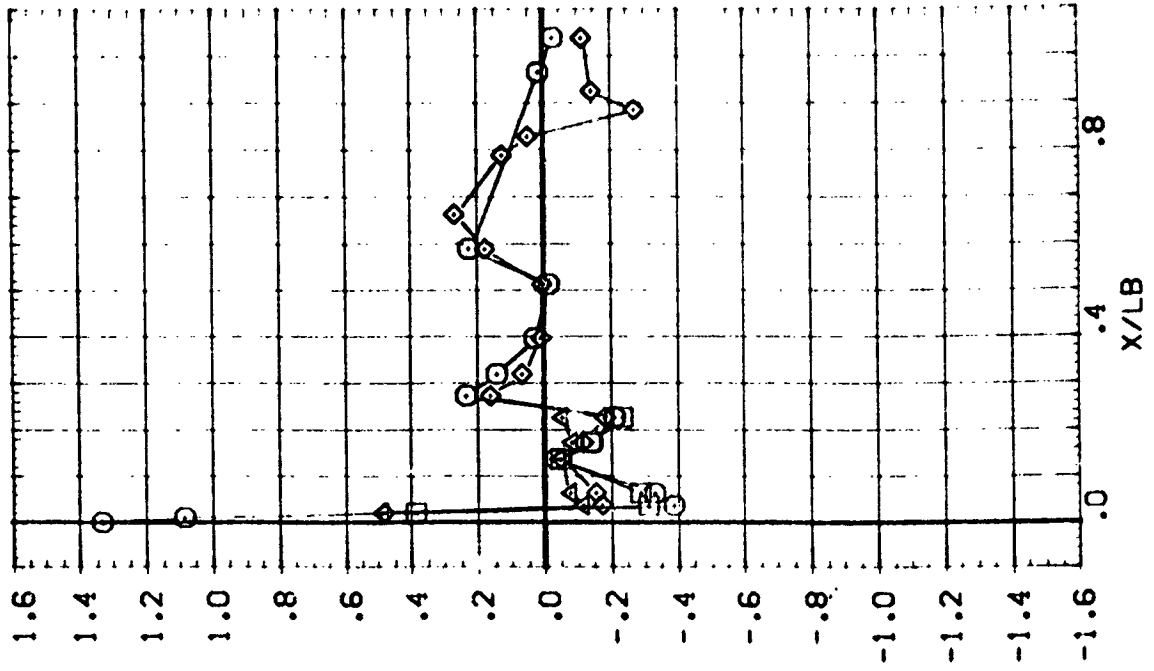
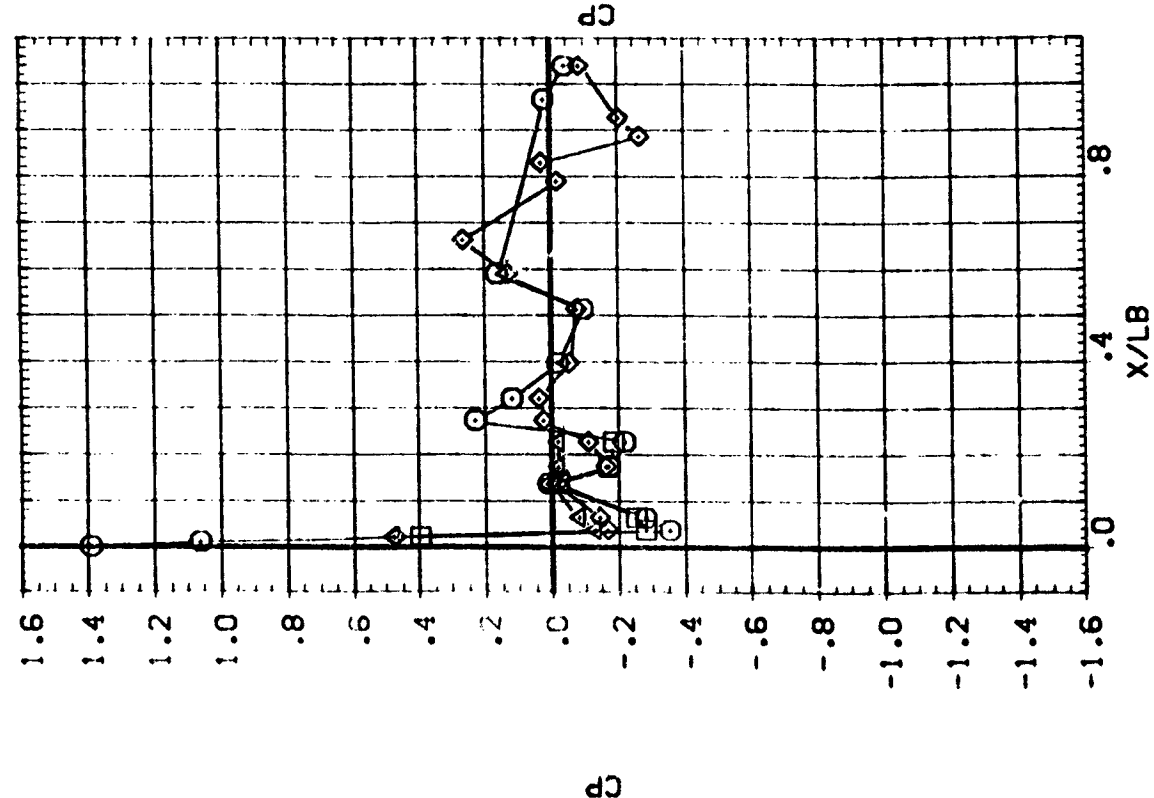


LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AVES 11-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (RBMB01)

SYMBOL
 ○
 ◇
 △

PARAMETRIC VALUES
 BEAT .000
 ORBITING .000
 ELEVON .000
 RUDDER .000
 RUFLR .000

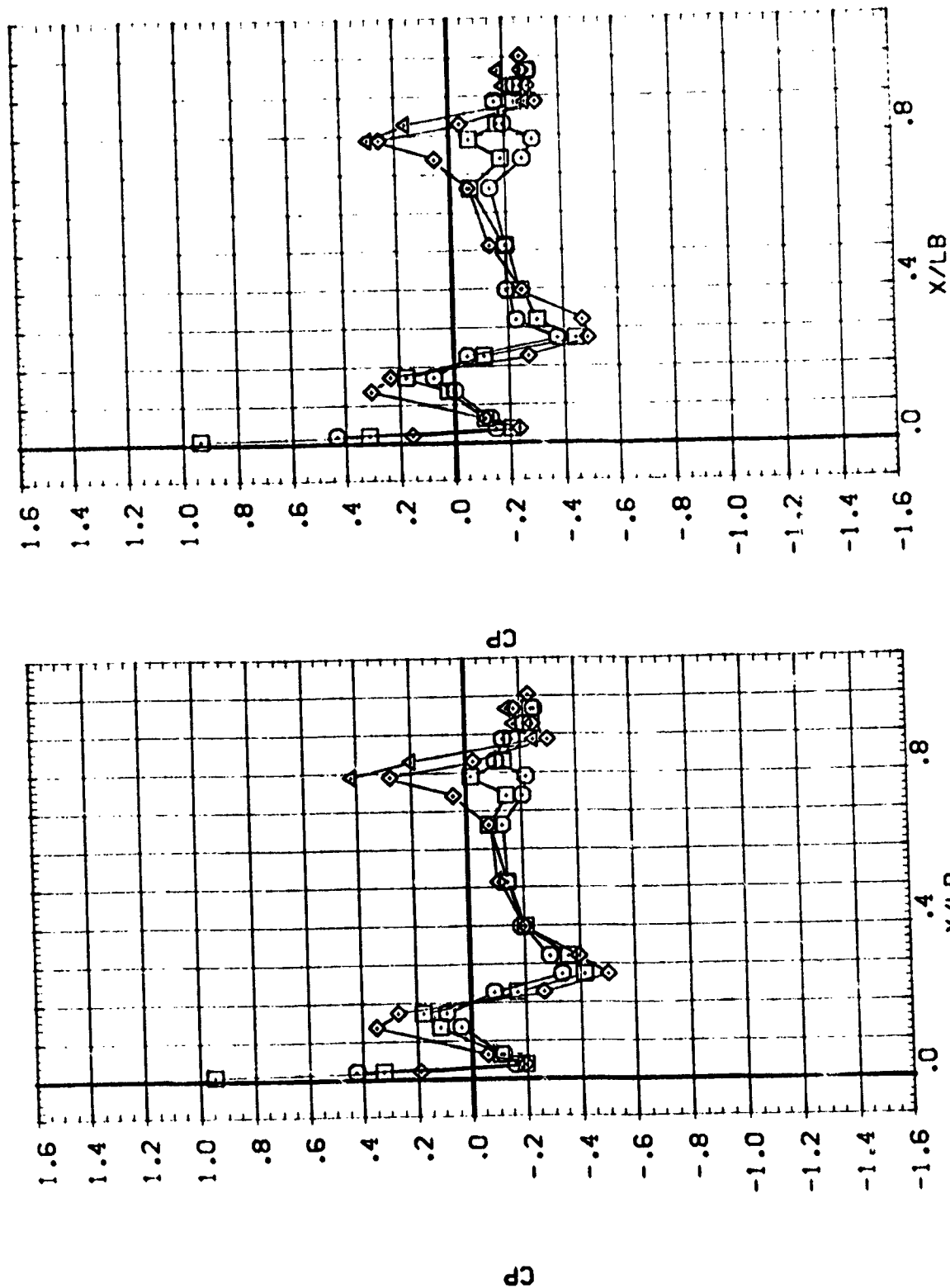


LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

SYNOPSIS

ALBAT	MACH
4.040	1.248
8.080	

PARAMETRIC VALUES	
BETA*	.000
R000R	.000
R001R	.000
R002R	.000
R003R	.000
R004R	.000
R005R	.000
R006R	.000
R007R	.000
R008R	.000
R009R	.000
R010R	.000
R011R	.000
R012R	.000
R013R	.000
R014R	.000
R015R	.000
R016R	.000
R017R	.000
R018R	.000
R019R	.000
R020R	.000
R021R	.000
R022R	.000
R023R	.000
R024R	.000
R025R	.000
R026R	.000
R027R	.000
R028R	.000
R029R	.000
R030R	.000
R031R	.000
R032R	.000
R033R	.000
R034R	.000
R035R	.000
R036R	.000
R037R	.000
R038R	.000
R039R	.000
R040R	.000
R041R	.000
R042R	.000
R043R	.000
R044R	.000
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R046R	.000
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R133R	.000
R134R	.000
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R136R	.000
R137R	.000
R138R	.000
R139R	.000
R140R	.000
R141R	.000
R142R	.000
R143R	.000
R144R	.000
R145R	.000
R146R	.000
R147R	.000
R148R	.000
R149R	.000
R150R	.000
R151R	.000
R152R	.000
R153R	.000
R154R	.000
R155R</	



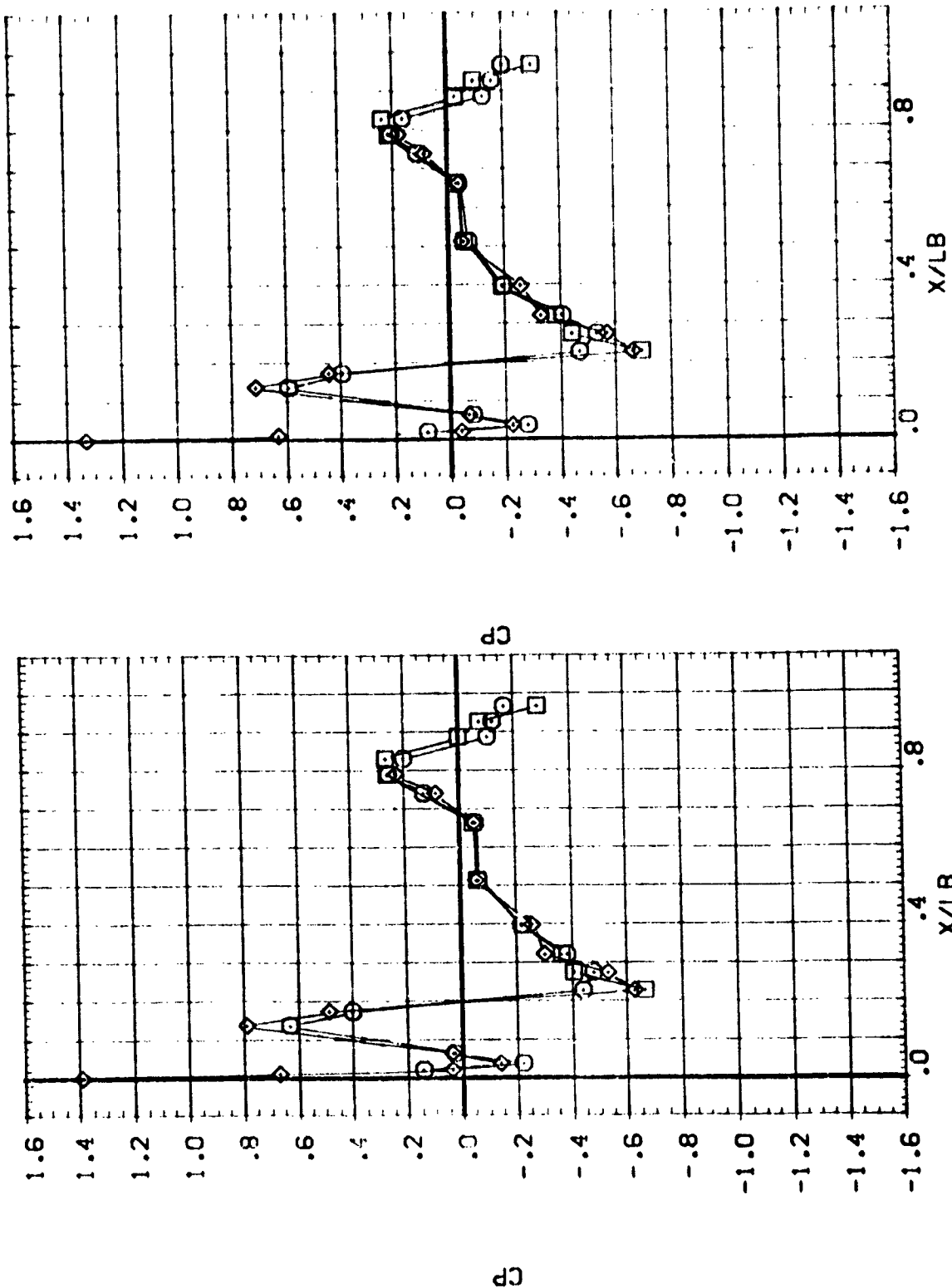
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AVES 11-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (RBM301)

SYMBOL
O
◇

ALPHAT MACH
4.040 1.248
8.010

PARAMETRIC VALUES
BETAT
RUDDER
RUDLER
1.500
1.000
1.000
1.000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES



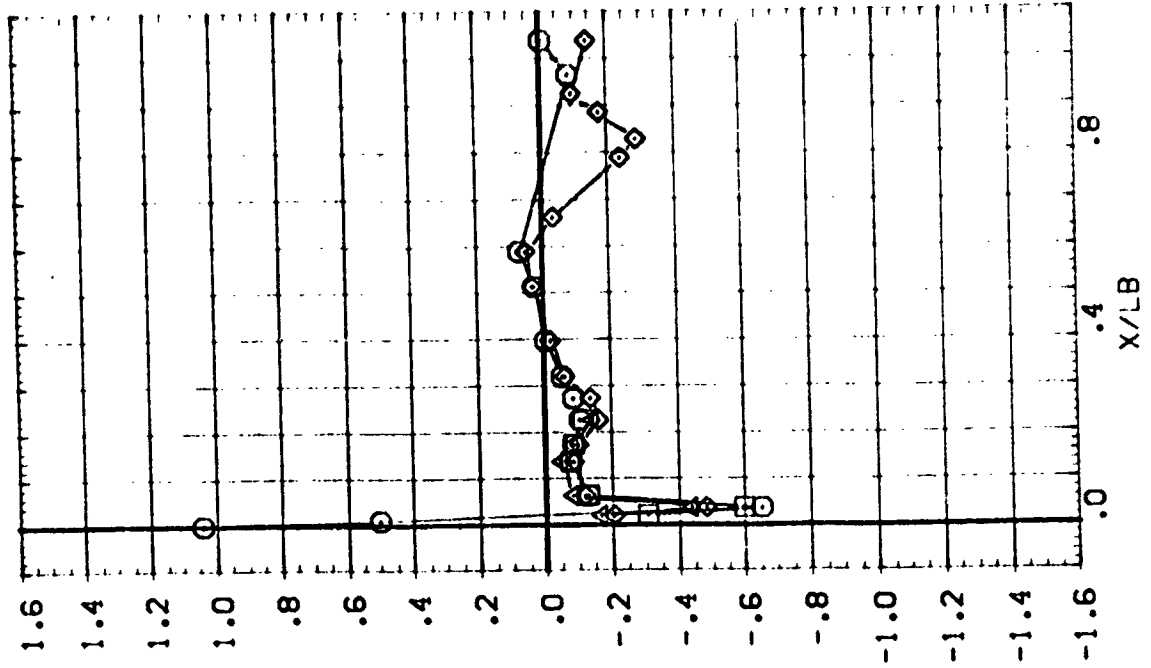
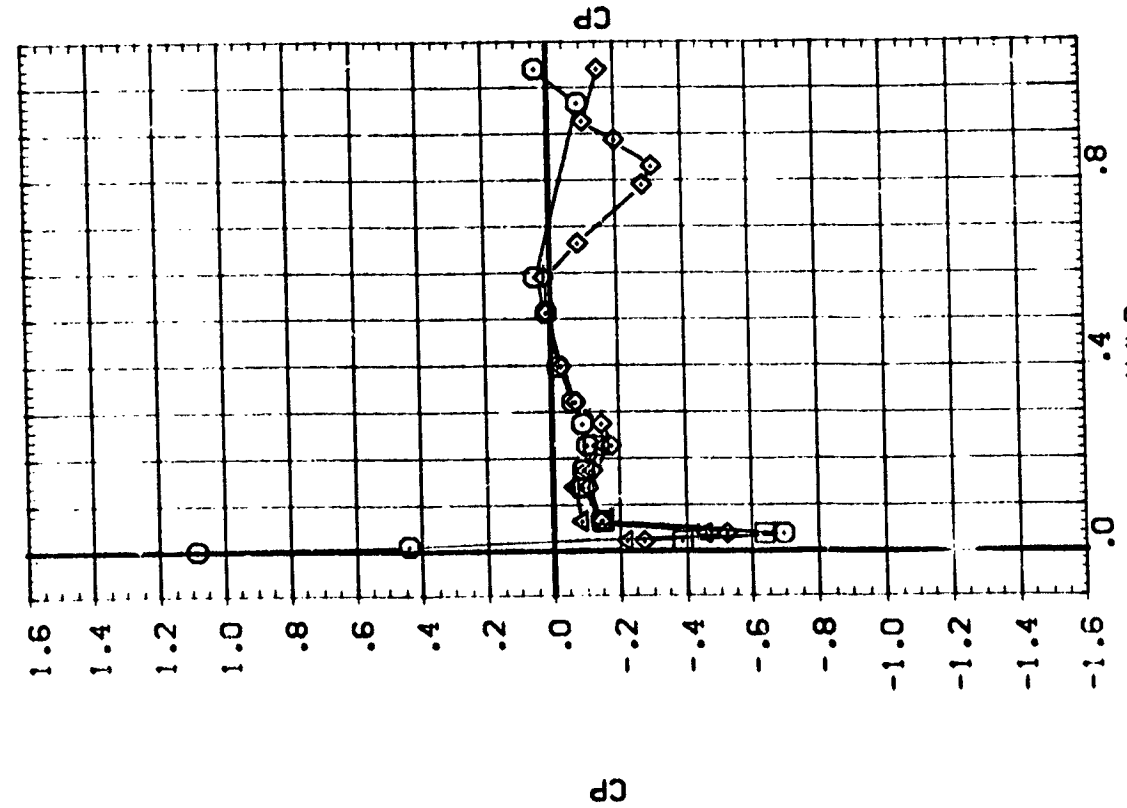
AVES 11-707 1A9 C2A - S3 - T9 ORBITER FUSELAGE (RBMB02)

SYMBOL
 ○
 ◇
 △

PH: .000
 20.000
 40.000
 55.000

ALPHAT MACH
 -3.990 .999
 .020

PARAMETRIC VALUES
 BETAT .000 ORBINC .500
 RUDDER .000 ELEV .000
 RUDDLR .000



==

AVES 11-707 1A9 32A - S3 - 13 ORBITER FUSELAGE (RBV302)

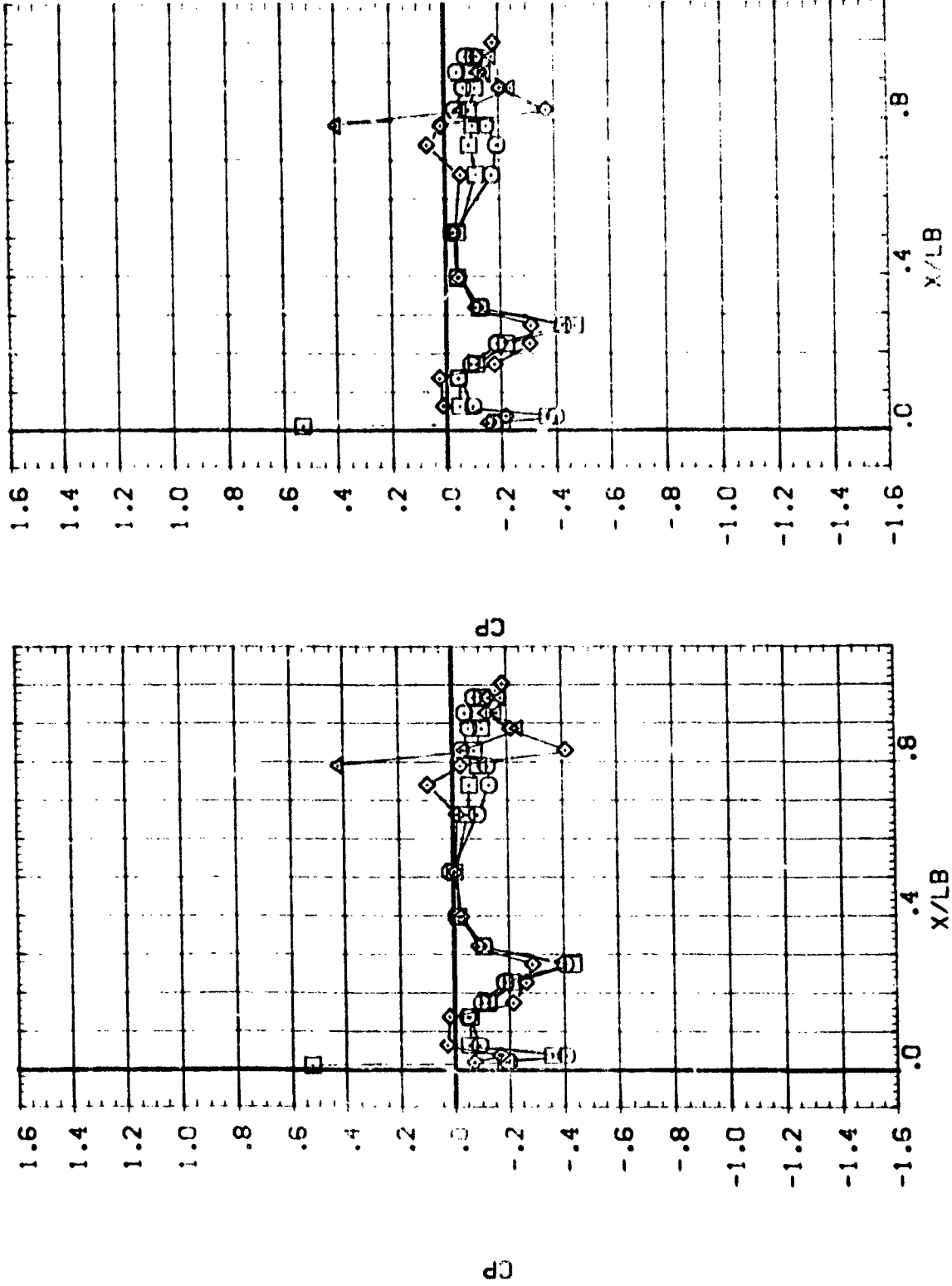
SYNCH:
 70.000
 90.000
 120.000
 135.000

ALPHAT
 -3.990
 .020

MACH
 .599

90° A
 RUDDER
 RUDDER

PARAMETRIC VALUES
 .000
 .000
 .000
 .000
 .500
 .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES



C-2

AMES : 1-707 : A9 C2A - S3 + T9 ORBITER FUSELAGE (RBM902)

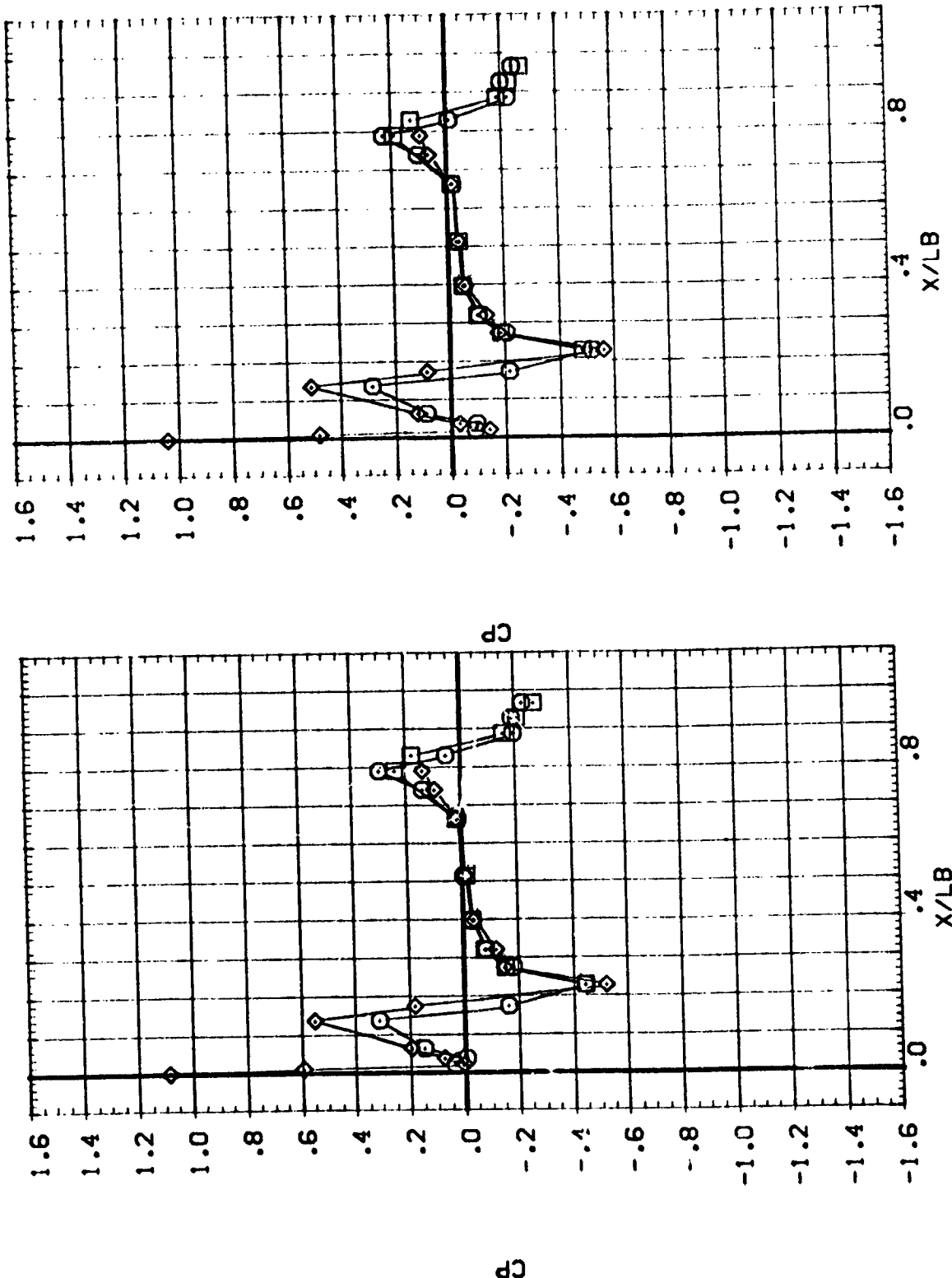
SYMBOL
O I \diamond

PMI
150.000
165.000
180.000

ALPHAT
-3.990
.020

MACH
.599

PARAMETRIC VALUES
BETAT
RUDER
RUDLR
ORBITC
ELEVON
.500
.000
.000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES



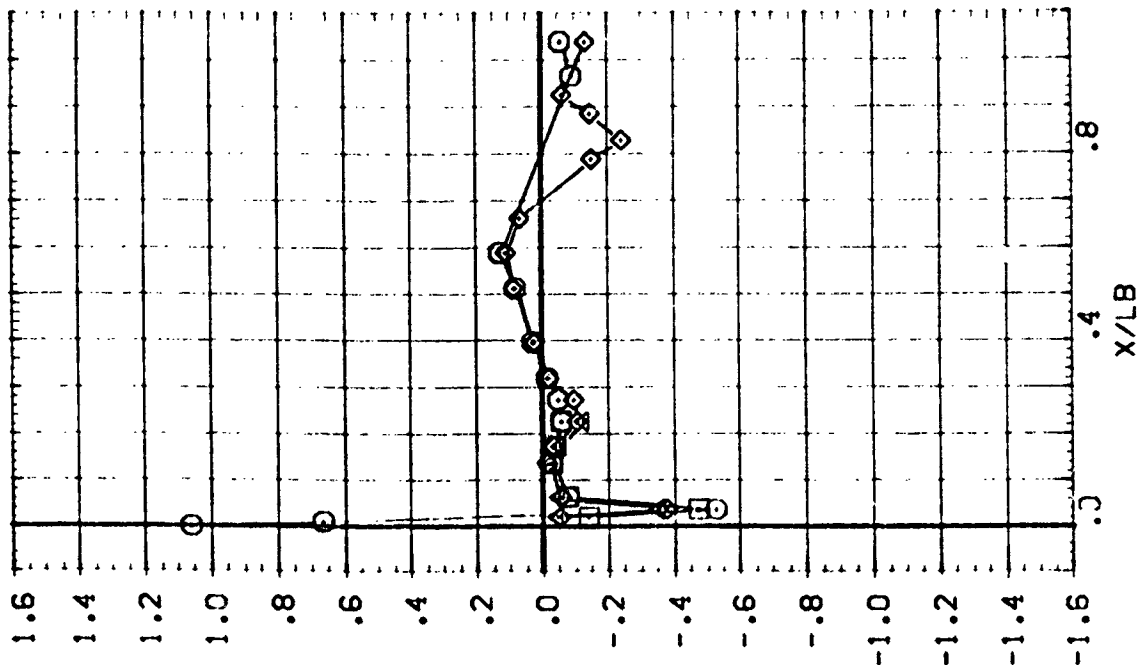
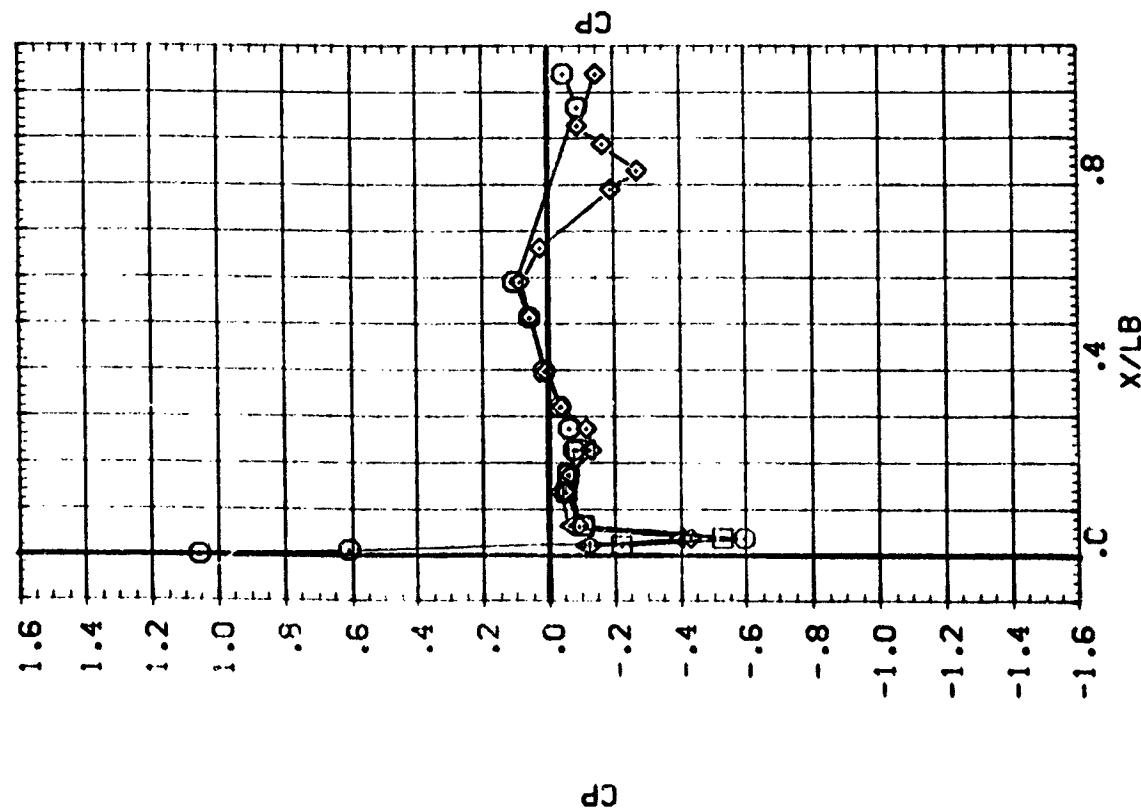
AVES 11-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (RBMB02)

SYMBOL
 ○ □ ◇ △

PHI .000
 20.000
 40.000
 55.000

ALPHA T MACH
 4.020 .597
 8.000

PARAMETRIC VALUES
 BETA* .000
 RUDDER .000
 RUDDER .000
 ELEVON .000
 .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES



AMES 11-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (RBM02)

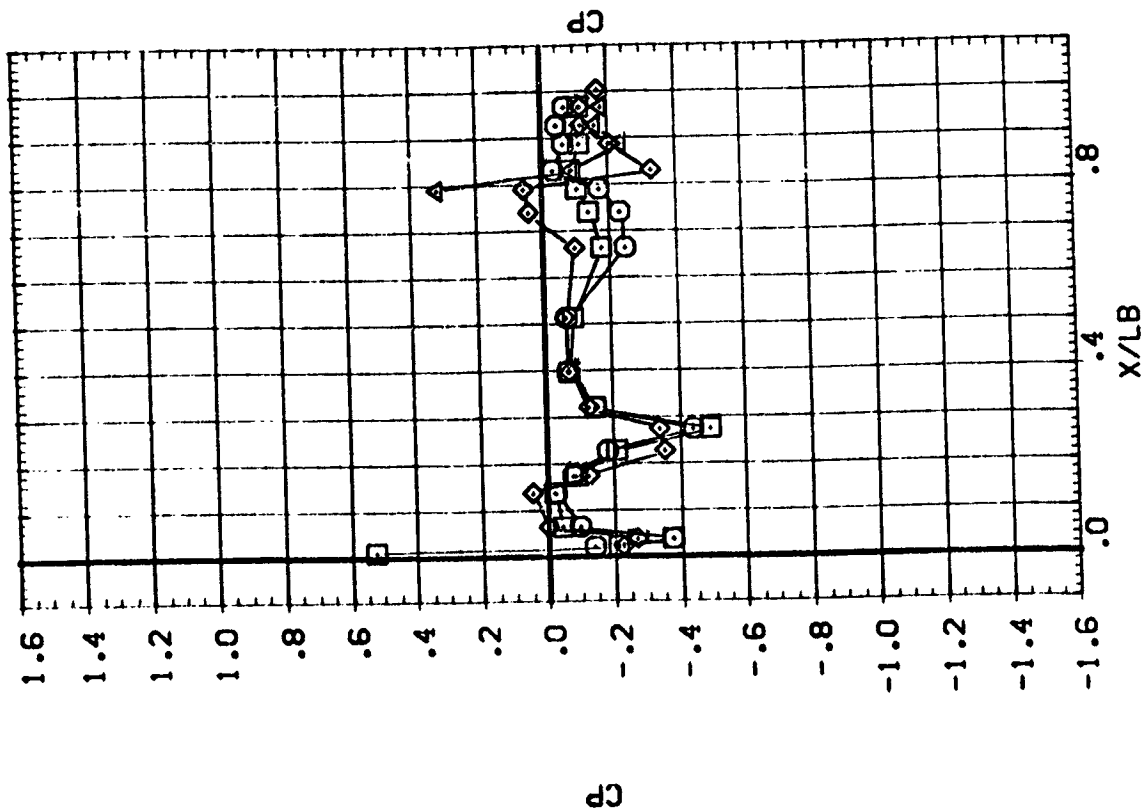
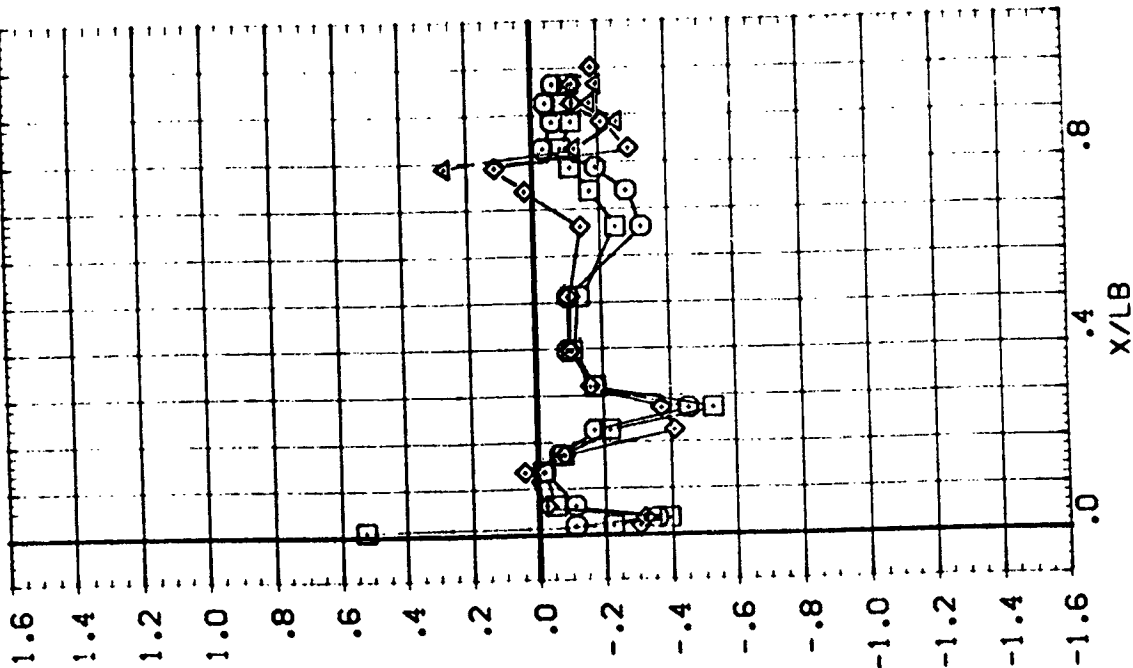
SYMBOL
○ □ ◇ △

PHI
70.000
90.000
120.000
135.000

ALPHA
4.000
8.000

MACH
.597

PARAMETRIC VALUES
BETAT .000 ORBINC .500
RUDDER .000 ELEVON .000
RUDDLR .000



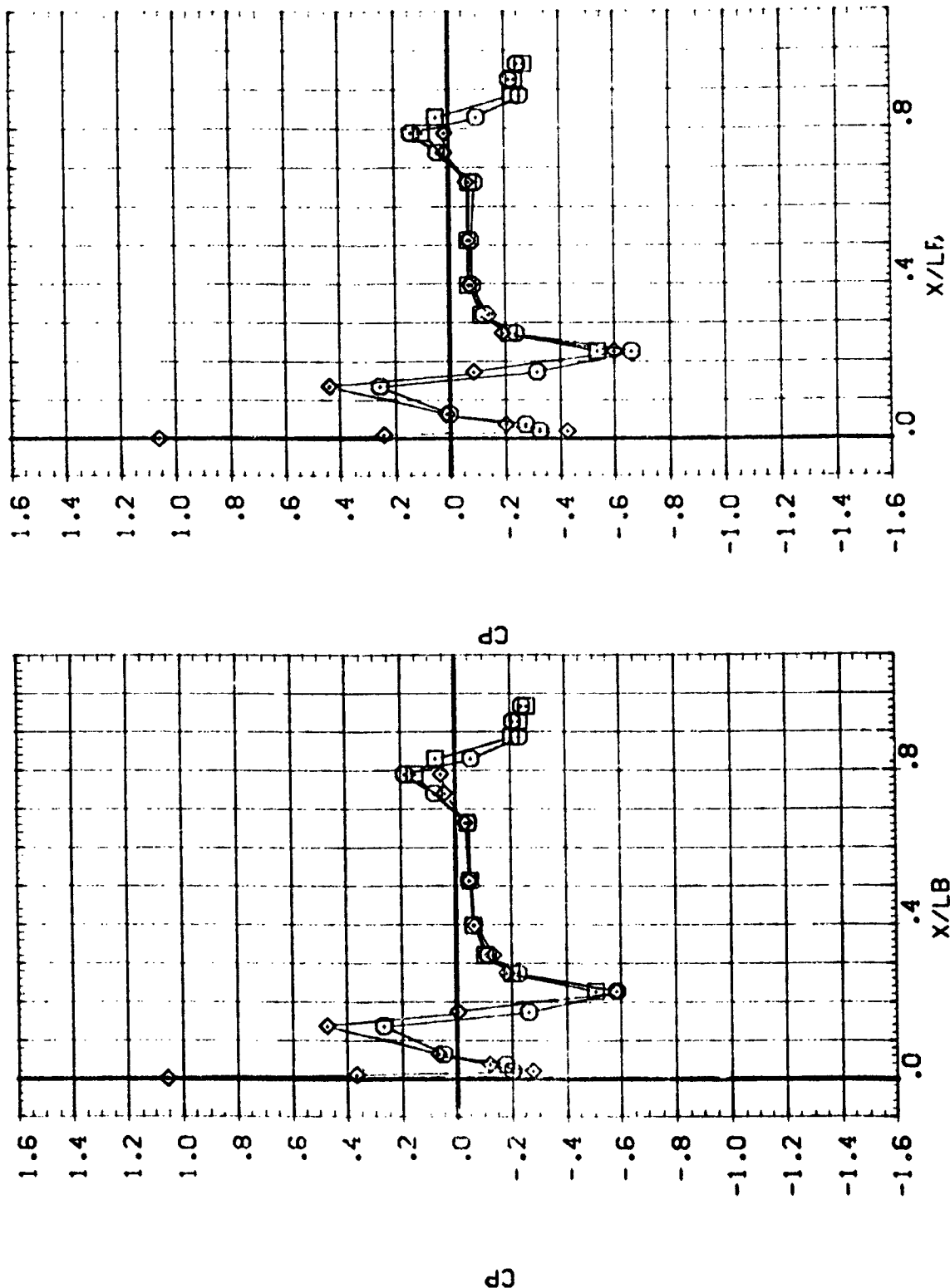
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AVES 11-707 :A9 C2A + S3 + 19 ORBITER FUSELAGE (RBMB02)

SYMBOL
 ()
 ()

PA: ALPHA* MAC*
 150.000 4.020 .597
 165.000 8.000
 180.000

PARAMETRIC VALUES
 BETAT .000 398.140
 RUDDER .000 0.000
 RUDDLR .000 0.000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES



AVES : 1-707 1A9 C2A + S3 + T9 ORBITER FUSELAGE (RBM802)

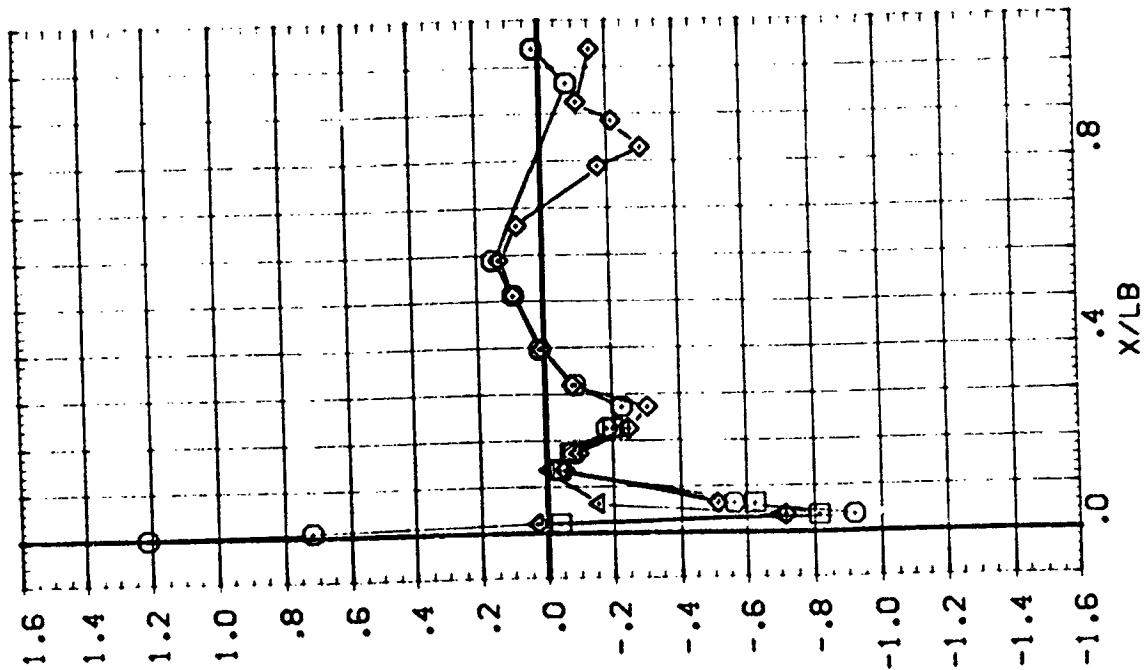
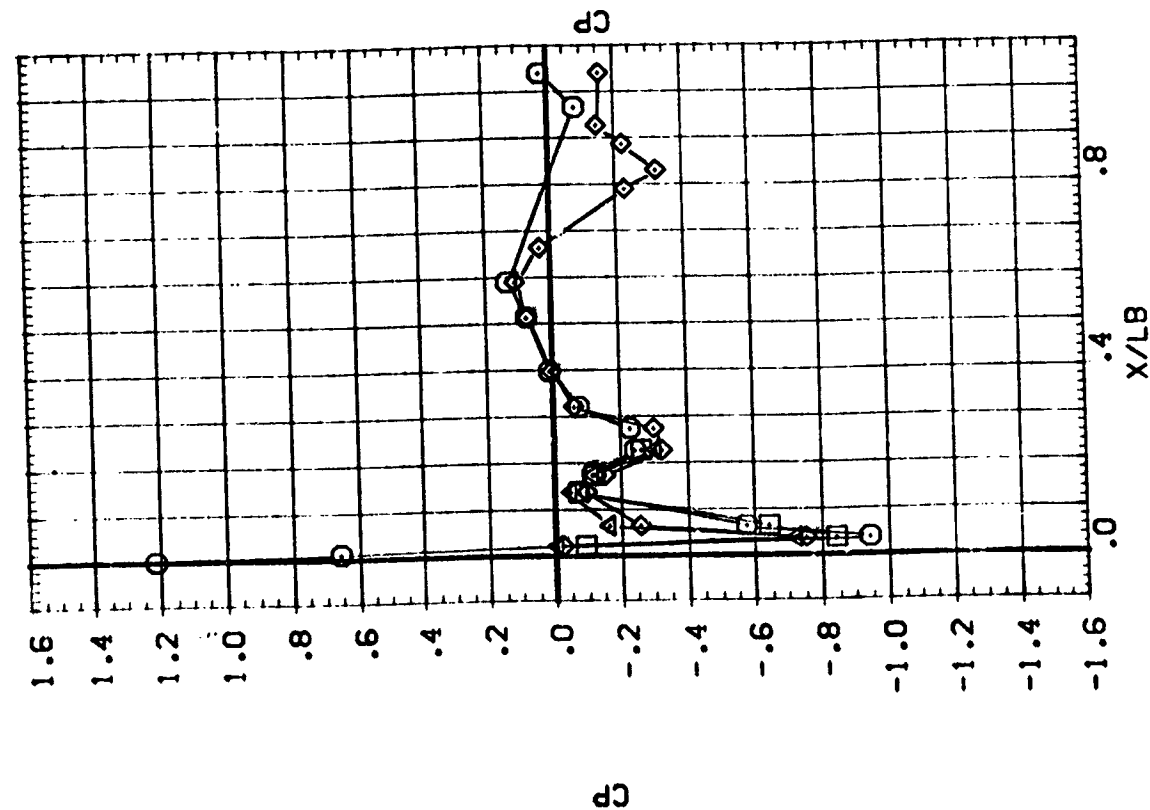
SYMBOL
 ○ □ ◇ △

P-1
 .000
 20.000
 40.000
 55.000

ALPHA-T
 -4.030
 .010

MACH
 .900

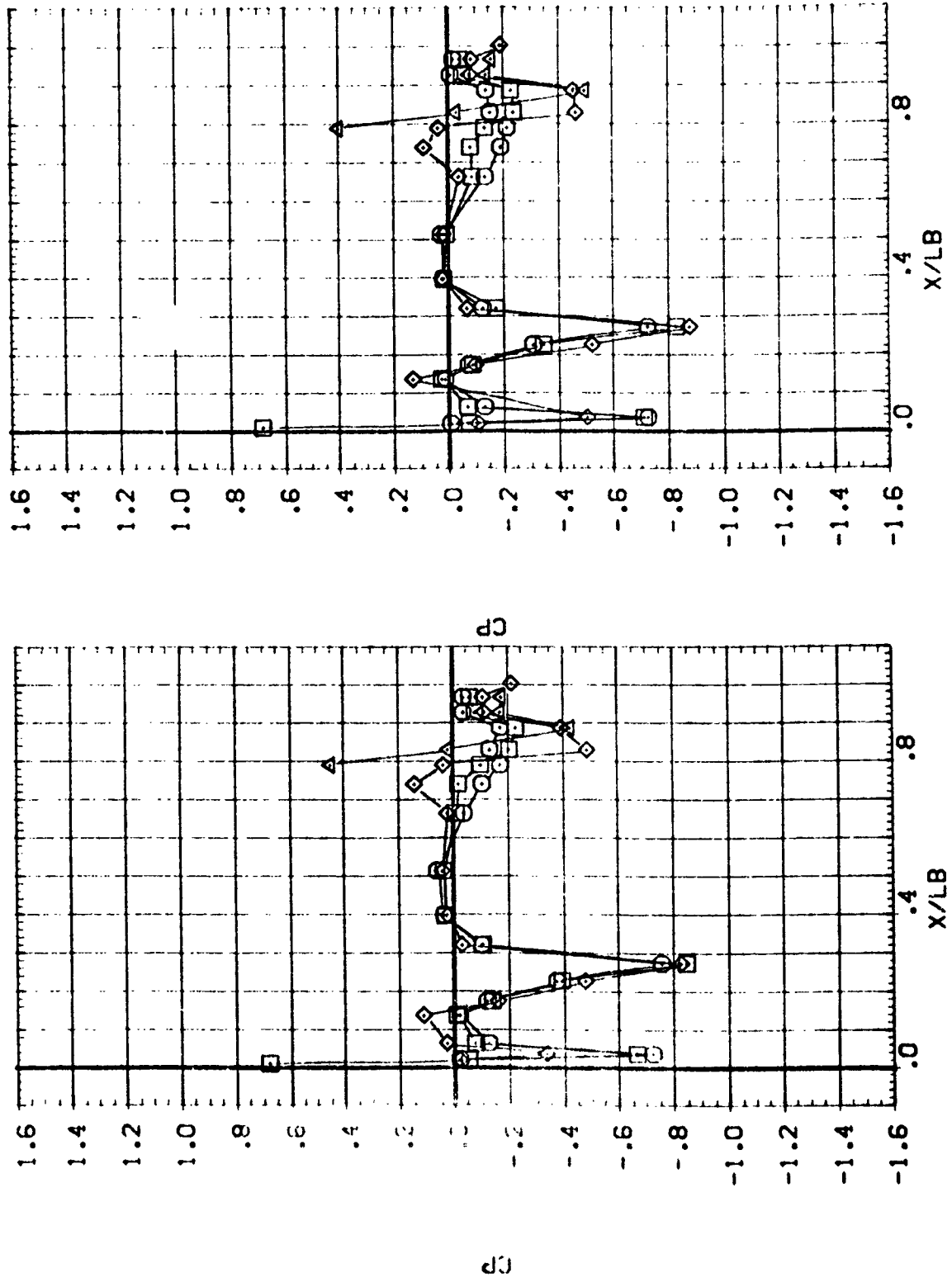
PARAMETRIC VALUES
 BETAT .000 ORBINC .500
 RUDDER .000 ELEVON .000
 RUFLER .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AVES 11-707 :A9 02A + S3 + T9 ORBITER FUSELAGE (RMB002)

SYMBOL	PHI	ALPHA	MACH	BETA	ORBITING	ELEV
01	70.000	-4.030	.900	.000	.000	.500
02	90.000	.010		.000	.000	.000
03	120.000			.000		
04	135.000					

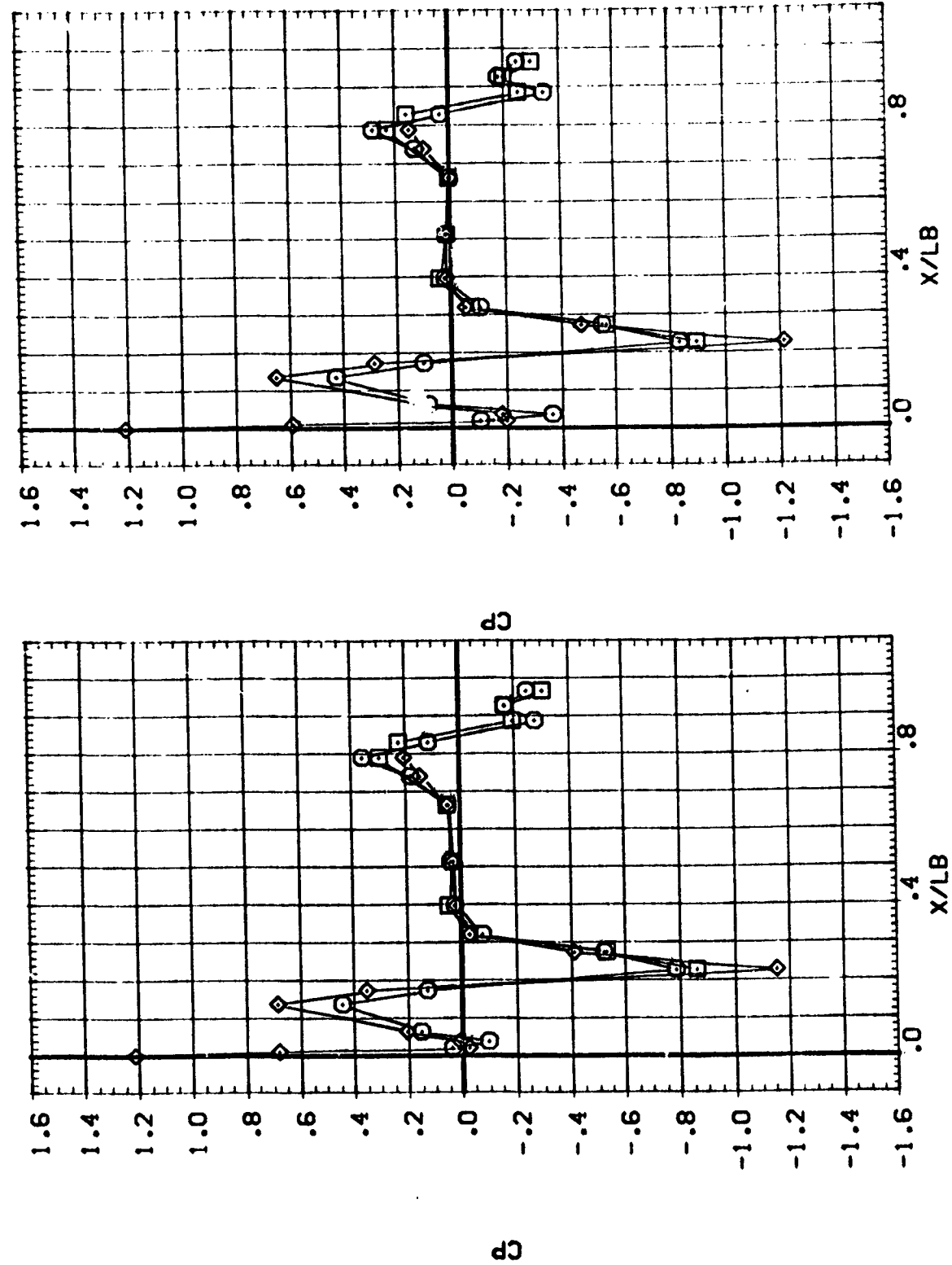


LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES



AMES 11-707 1A9 C2A + S3 + T9 ORBITER FUSELAGE (RBMB02)

SYMBOL	PHI	ALPHA	MACH	PARAMETRIC VALUES			
				BETAT	RJDDER	ORBNIC	ELEVEN
○	150.000	-4.030	.900	.000	.000	.000	.000
□	165.000	.010		.000	.000	.000	.000
◇	180.000						



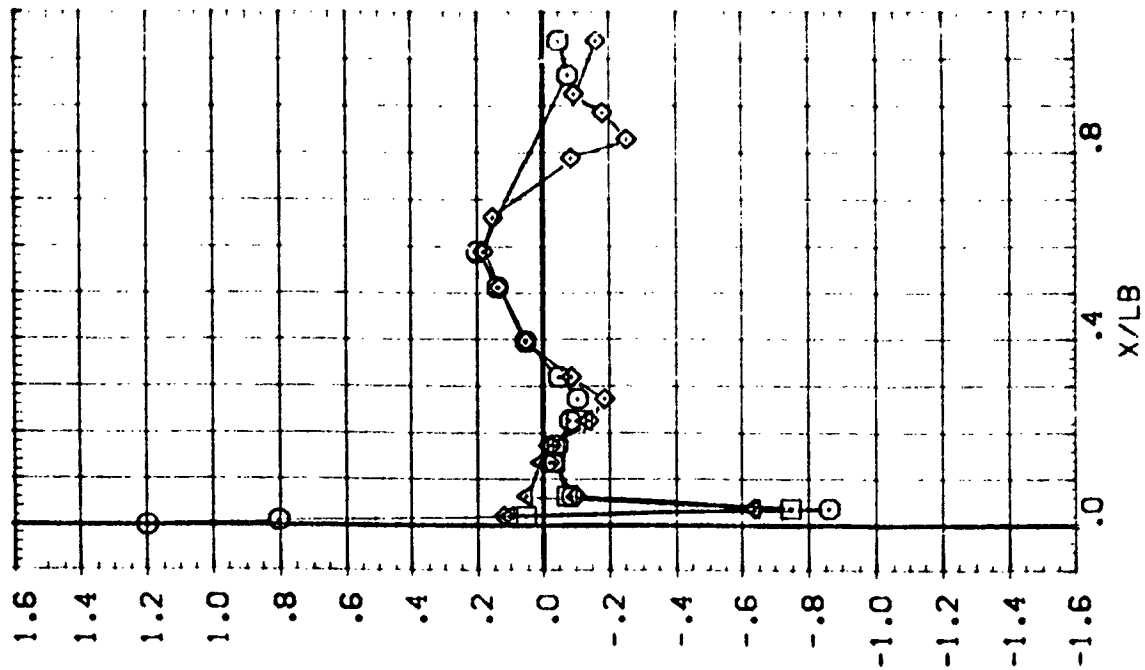
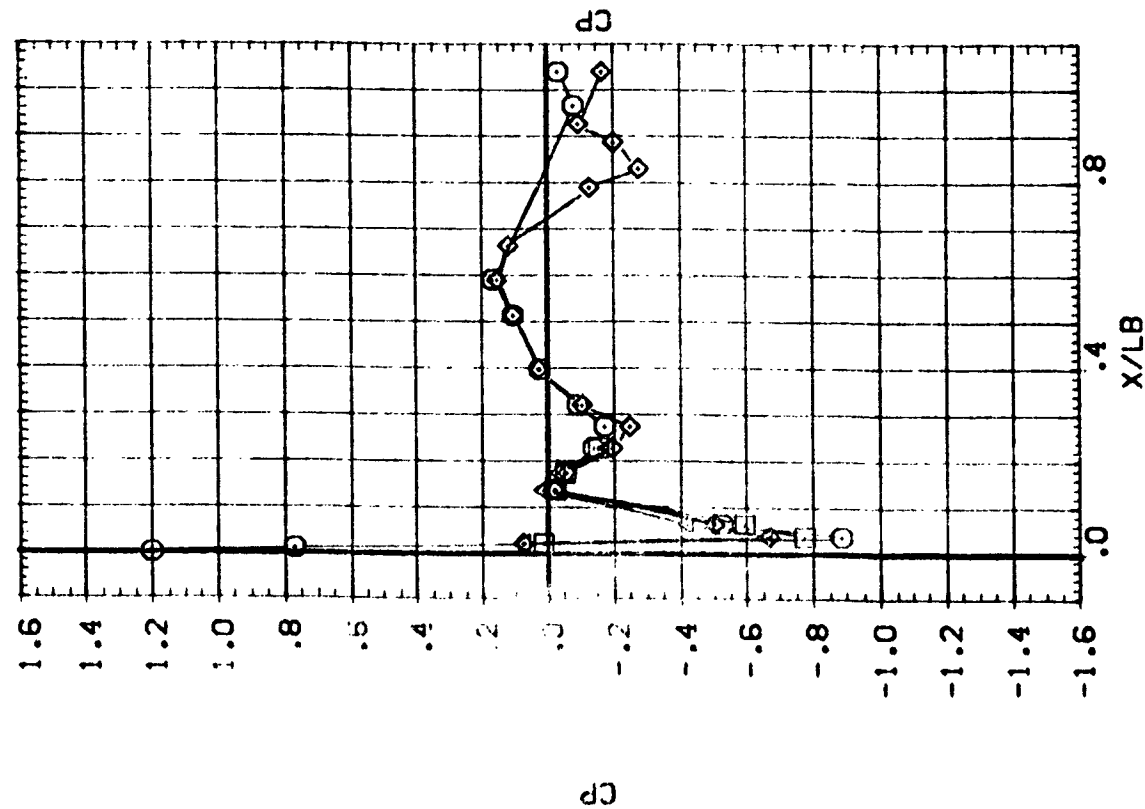
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AVES 11-707 1A9 02A + S3 + 19 ORBITER FUSELAGE (RBMB02)

SYMBOL
 O
 □
 ◇
 △

PHI ALPHA MACH
 .000 4.040 .905
 20.000 8.000
 40.000
 55.000

PARAMETRIC VALUES
 BETAT .000 ORBITINC .500
 RUDDER .000 ELEVON .000
 RUDFLR .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES



AMES 11-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (RBMB02)

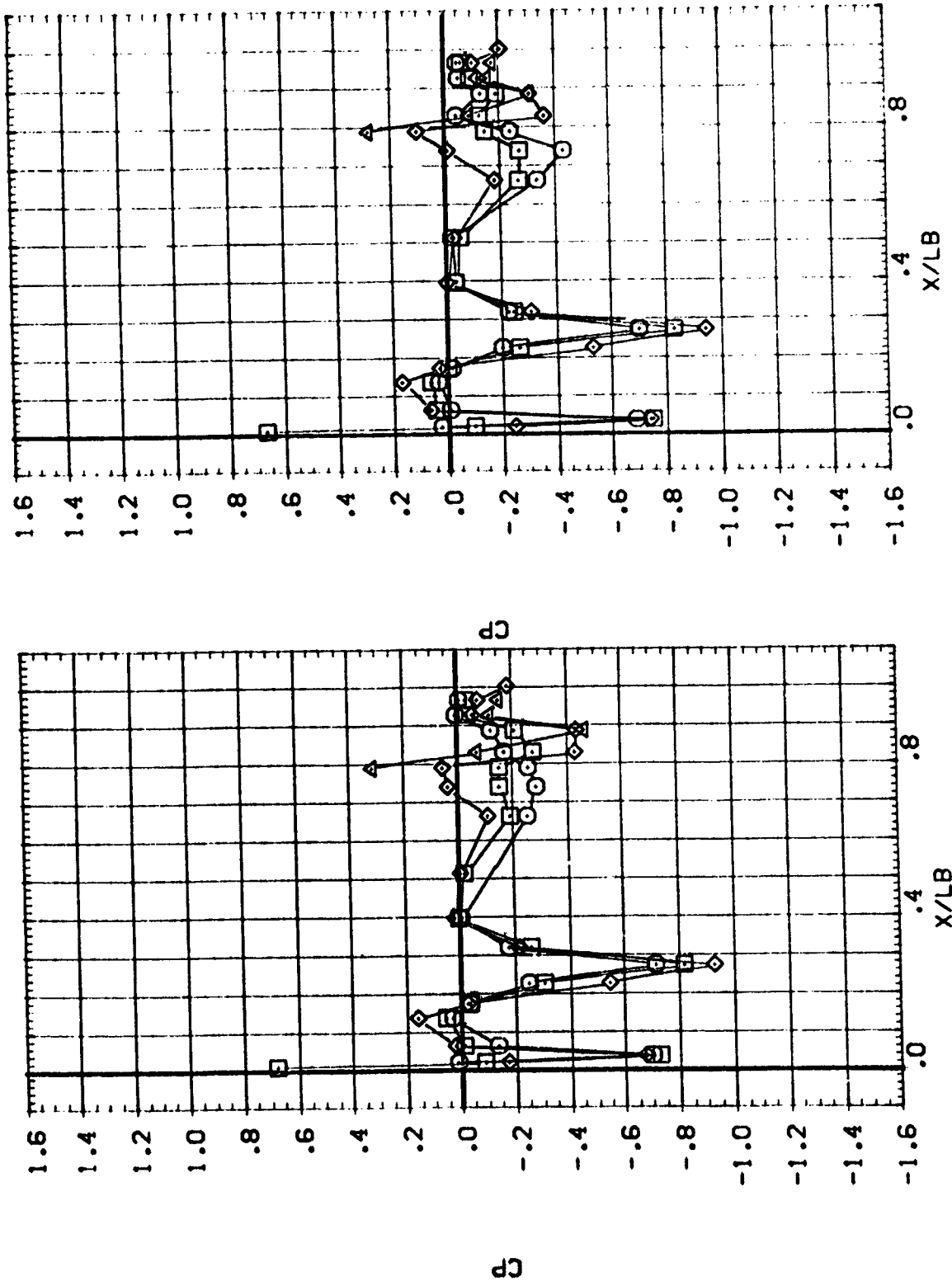
SYMBOL
□
◇
△

PHI
70.000
90.000
120.000
135.000

ALPHAT
4.040
8.000

MACH
.905

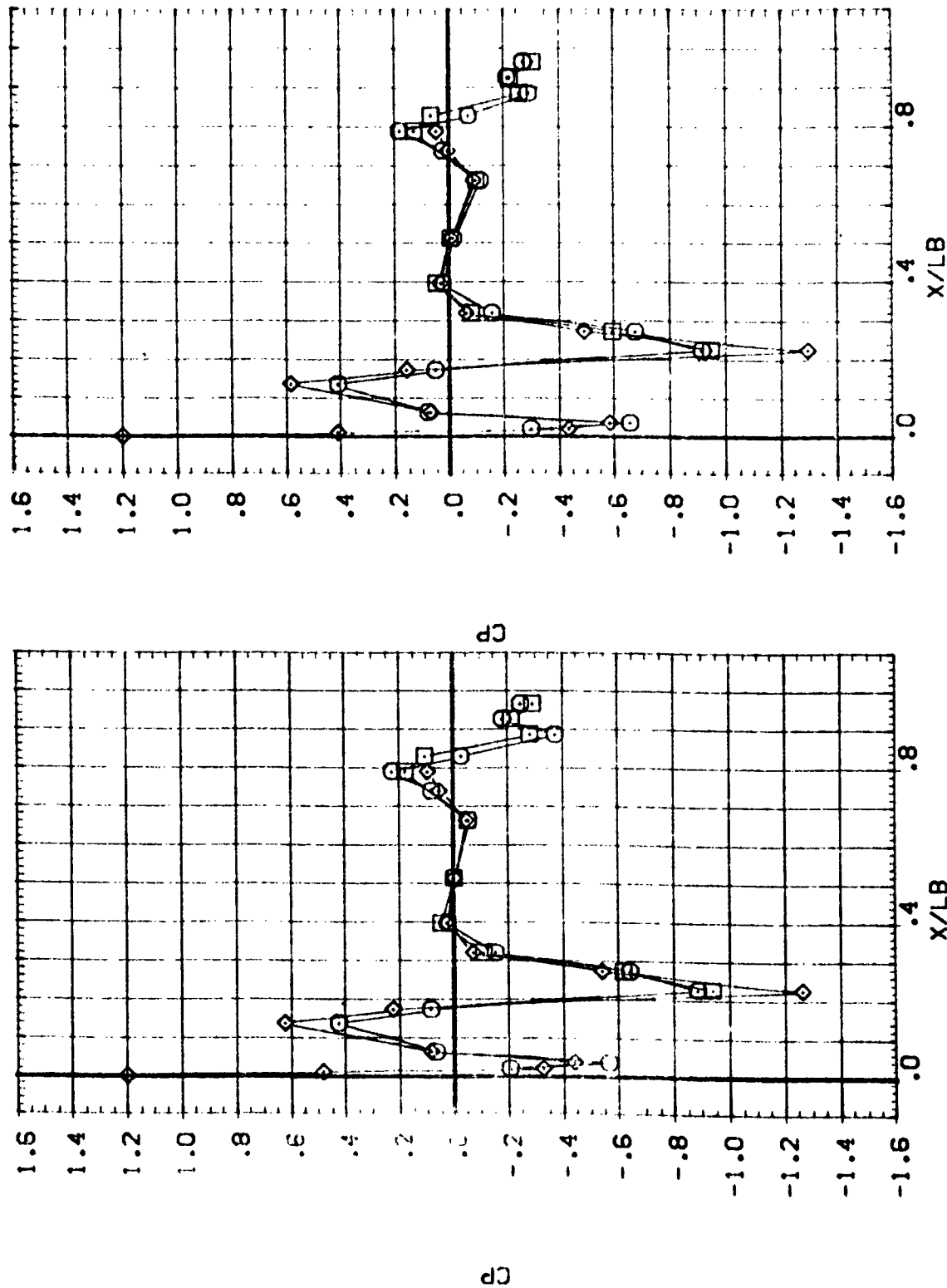
PARAMETRIC VALUES
BETAT .000 ORBINC .500
RJOER .000 ELEVON .000
RJOFLR .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AVES : 1-707 : A9 C2A + S3 + T9 ORBITER FUSELAGE (RBMB02)

SYMBOL	PHI	ALPHA	MACH	PARAMETRIC VALUES	
	:50.000	4.040	.905	BETAT	ORBITING
	:65.000	8.000		RUDER	ELEVON
	:80.000			RJFLR	



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES



AMES 11-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (RBM02)

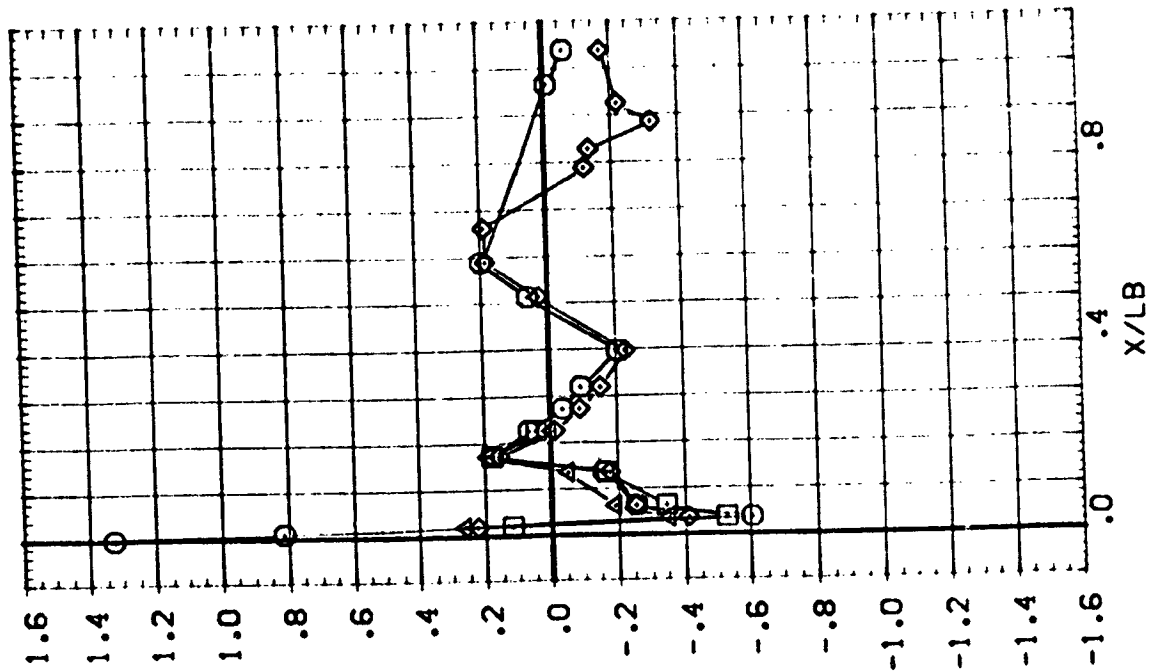
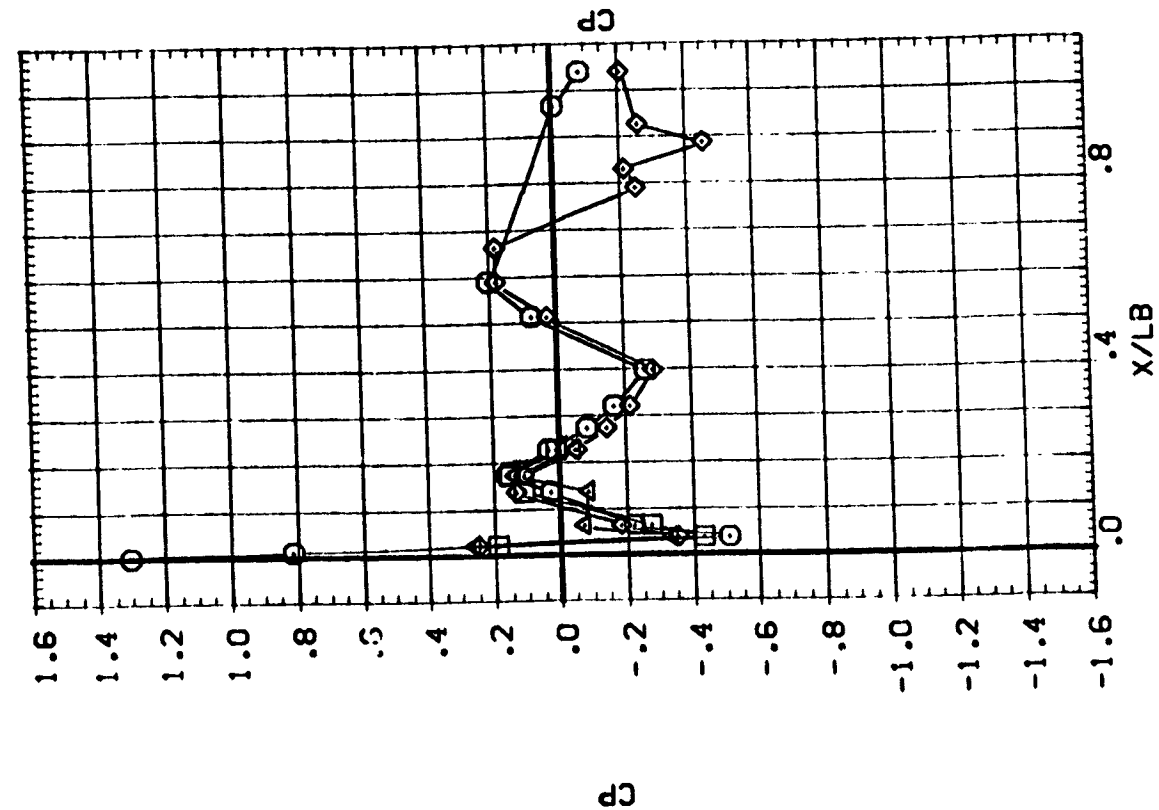
SYMBOL
○ □ ◇ △

PHI
.000
20.000
40.000
55.000

ALPHAT
-4.000
-.030

MACH
1.102

PARAMETRIC VALUES
BETAT .000 ORBITINC .500
RUDDER .000 ELEVON .000
RUDFLR .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 11-707 1A9 02A + S3 + 19 ORBITER FUSELAGE (RBM002)

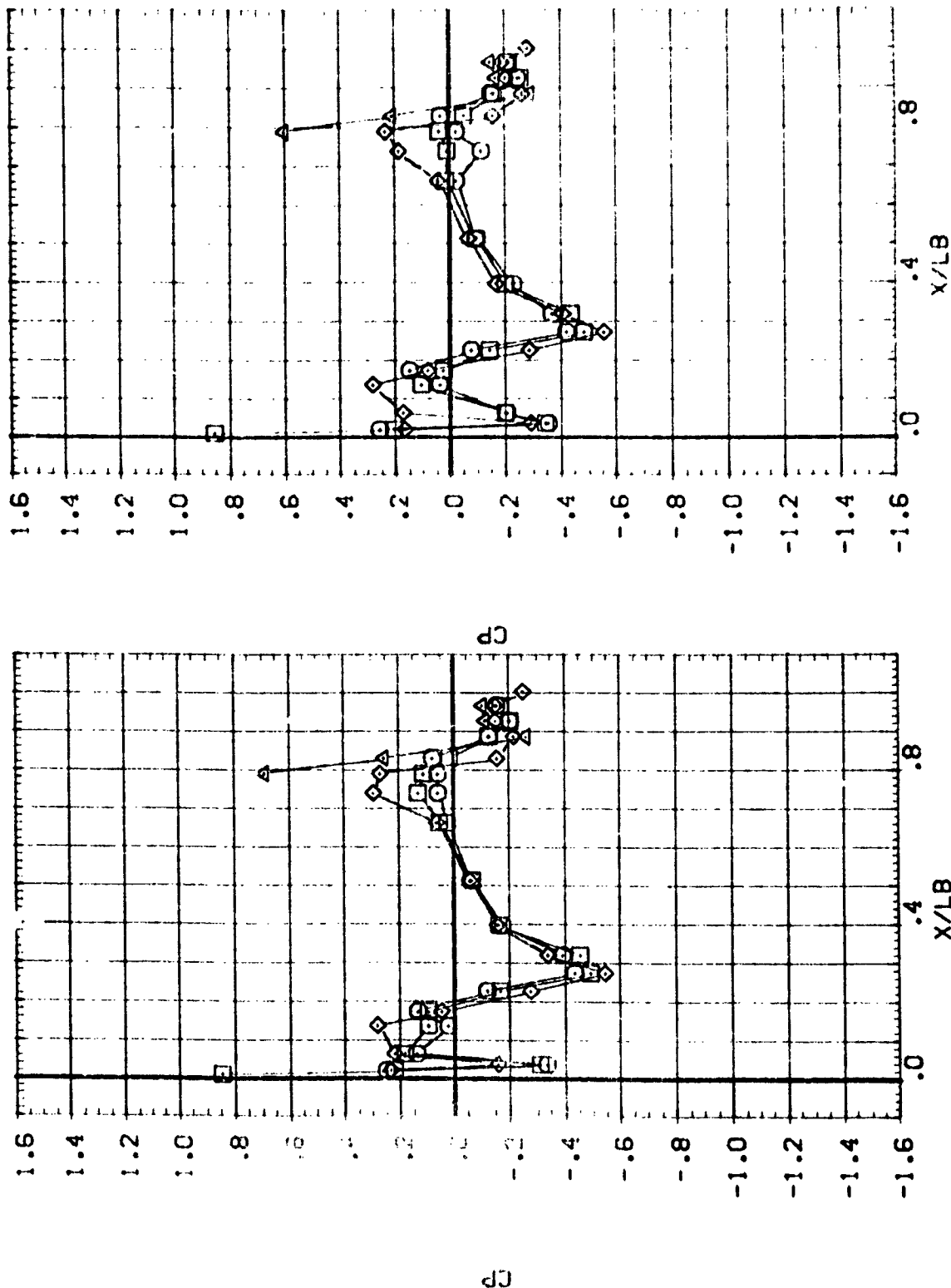
SYMBOL
 ○
 ◇
 △

PHI
 70.000
 90.000
 120.000
 135.000

ALPHAT
 -4.000
 -0.300

MACH
 1.102

PARAMETRIC VALUES
 BETAT .000
 RJOER .000
 RJOELR .000
 SBBINC .500
 FLEVEN .000

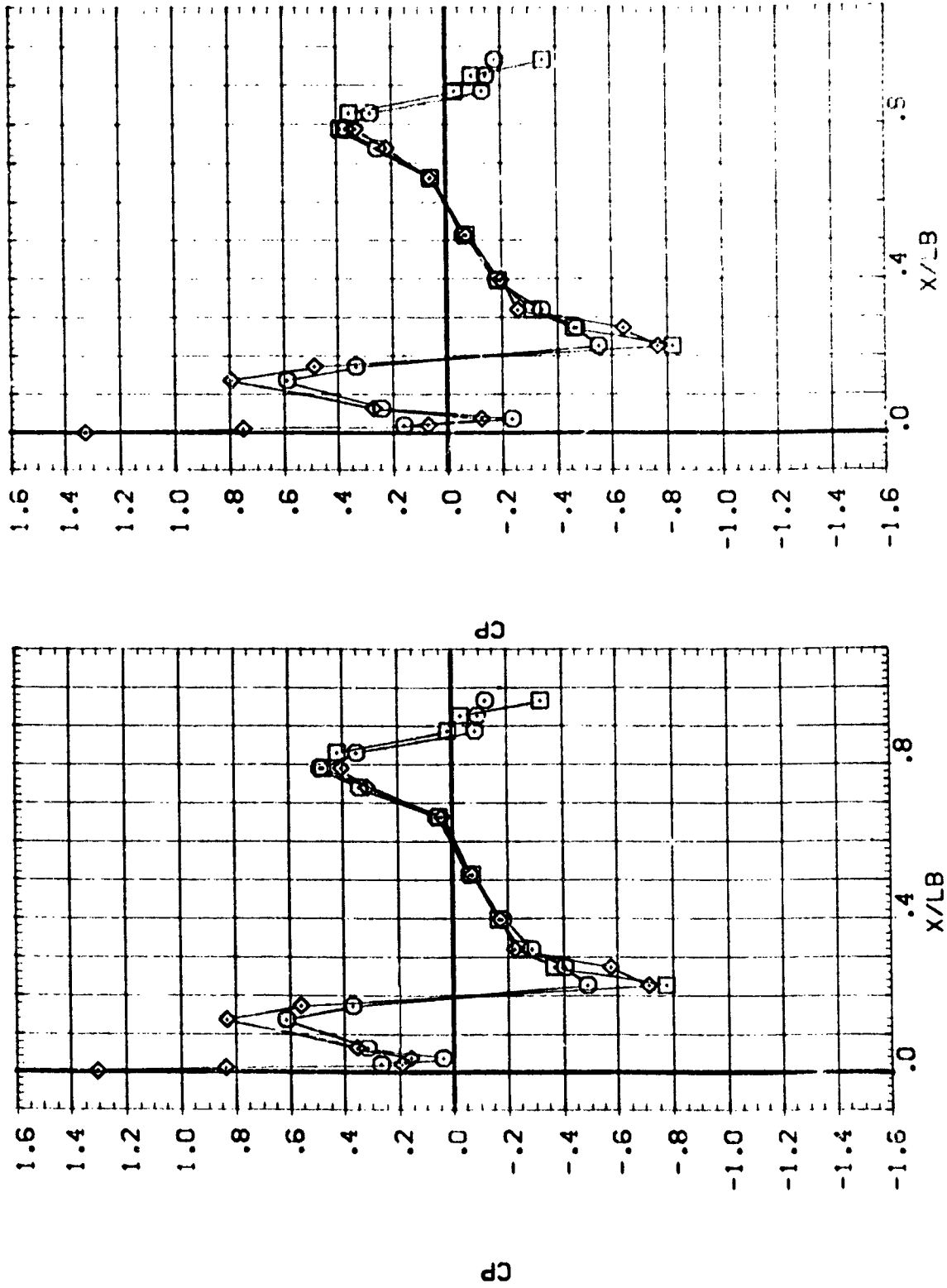


LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES



AMES 11-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (RBM002)

SYMBOL	P-H	ALPHA	MACH	PARAMETRIC VALUES		
				BETA	ORBITING	500
□	150.000	-4.000	1.102	RJ001	0.000	0.000
○	165.000	-0.030		RJ002	0.000	0.000
◇	180.000			RJ003	0.000	0.000



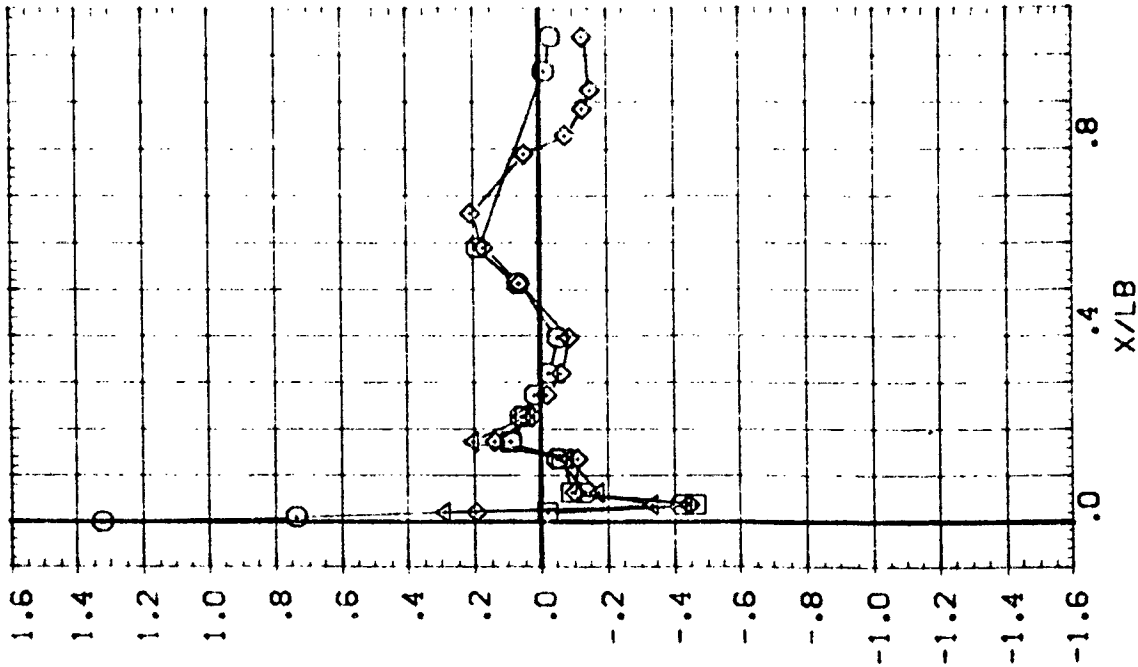
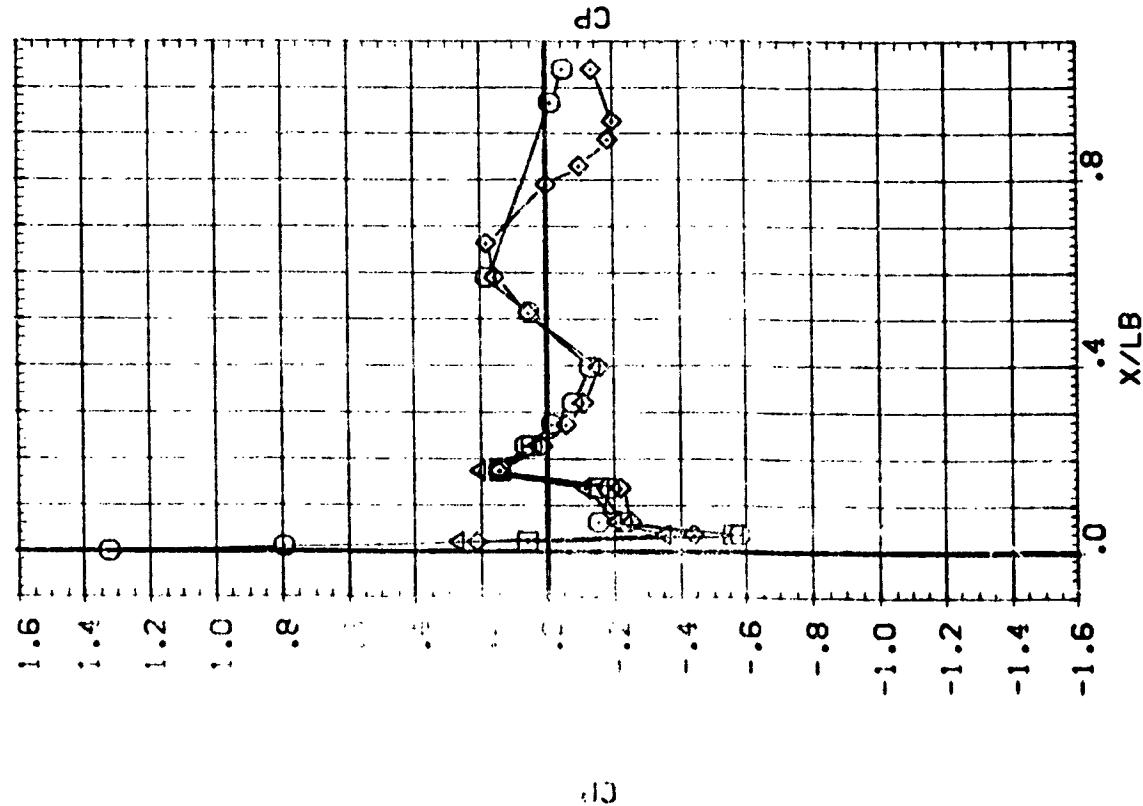
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AVES 11-707 1A9 02A + S3 - 19 0-BITER FUSELAGE (RBMB02)

STAGE
0
1
2
3
4

ALPHA: 3.980 1.102
MACH: 7.940

PARAMETRIC VALUES
BETA: .000 CRBINC .500
RUDDER .000 ELEVON .000
RUDDLR .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

SYMBOL
 ○ □ ◇ △

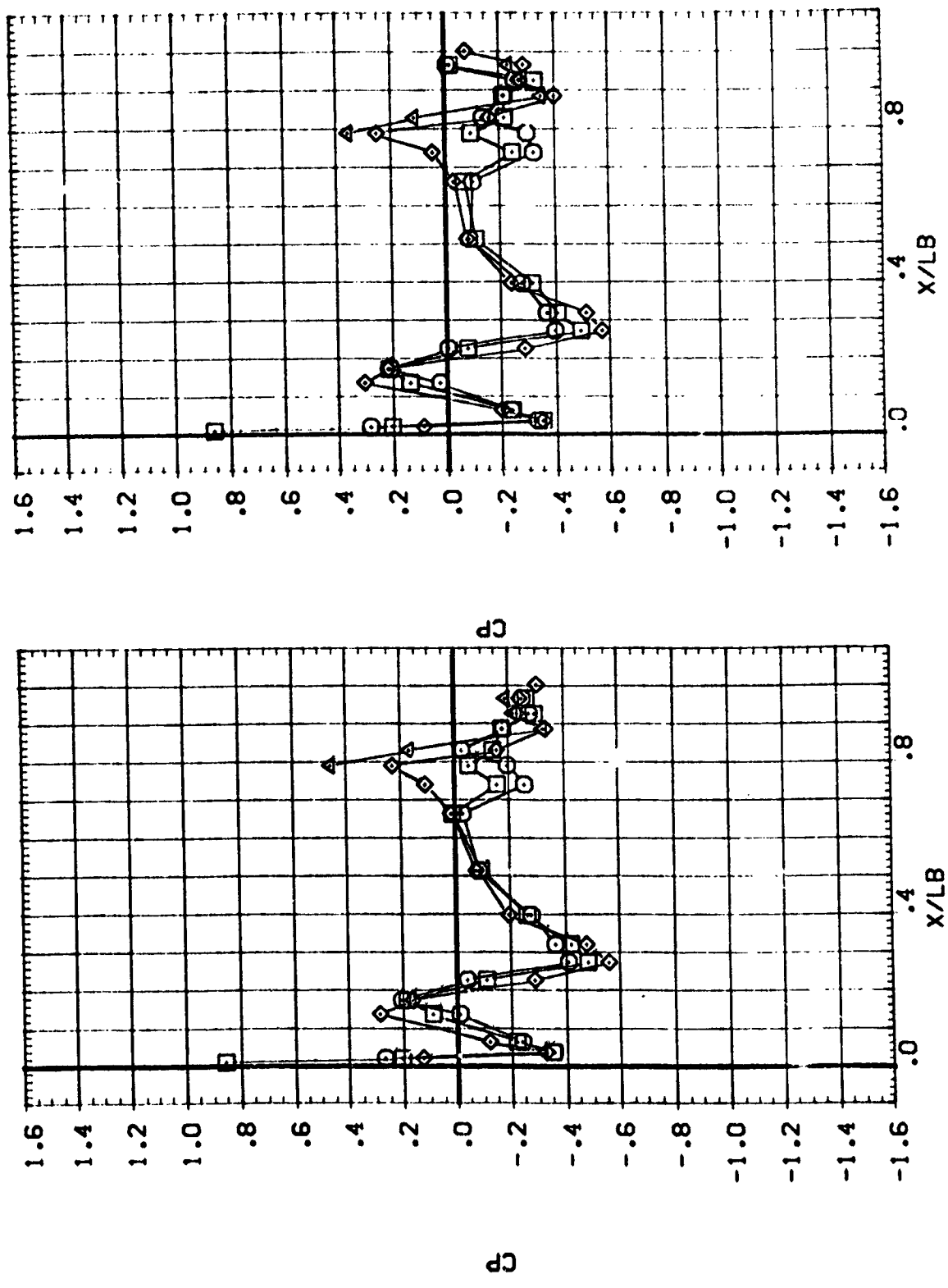
PH: 70.000
 90.000
 120.000
 135.000

ALPHAT 3.980
 7.940

MACH 1.102

AMES 11-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (RBMB02)

PARAMETRIC VALUES
 BETAT .000 ORB:NC .500
 RDOER .000 ELEVON .000
 RDOFLR .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AVES 11-707 1A9 C2A + S3 + 19 ORBITER FUSELAGE (RBM902)

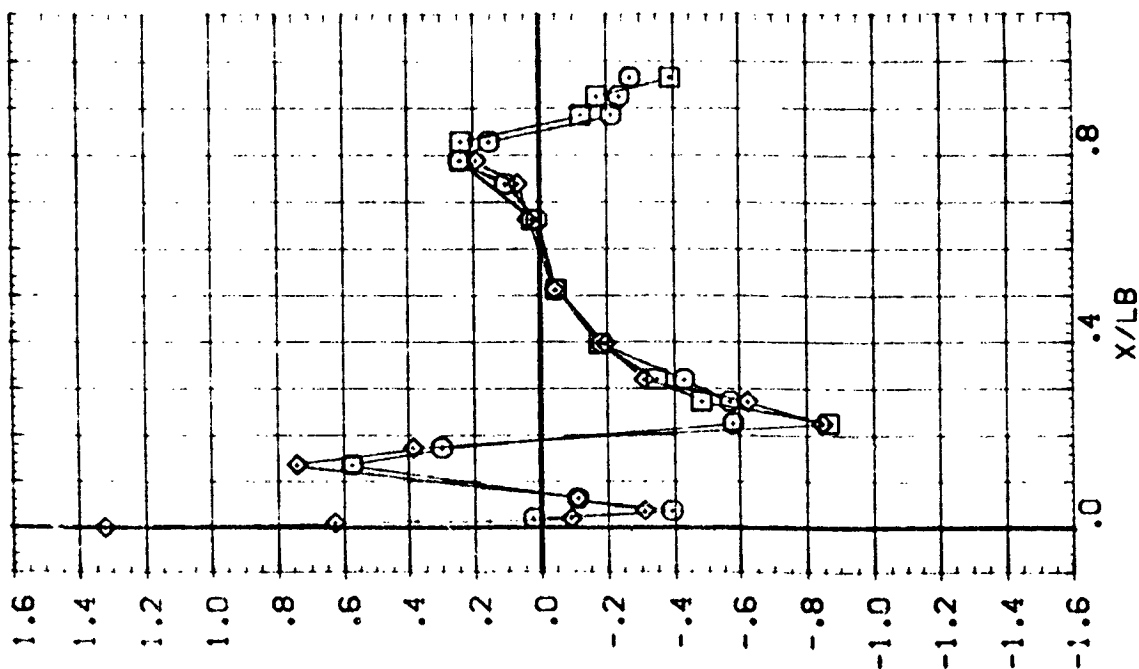
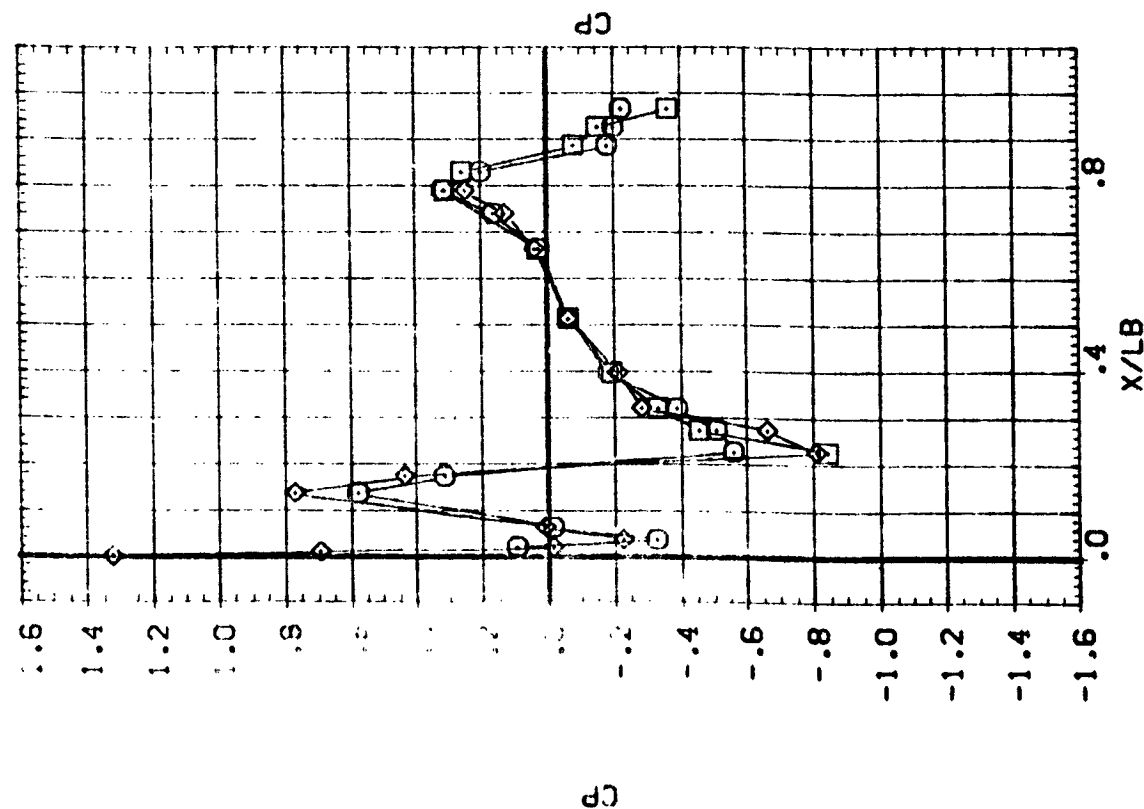
SYMBOL
 ○
 □
 ◇

PC: 150.000
 165.000
 180.000

ALPHA: 3.98C
 7.94C

MACH 1.102

PARAMETRIC VALUES
 S: 1AT .000 ORBINC .500
 R: 000R .000 ELEVCH .000
 R: 000R .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES



AMES 11-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (RBM02)

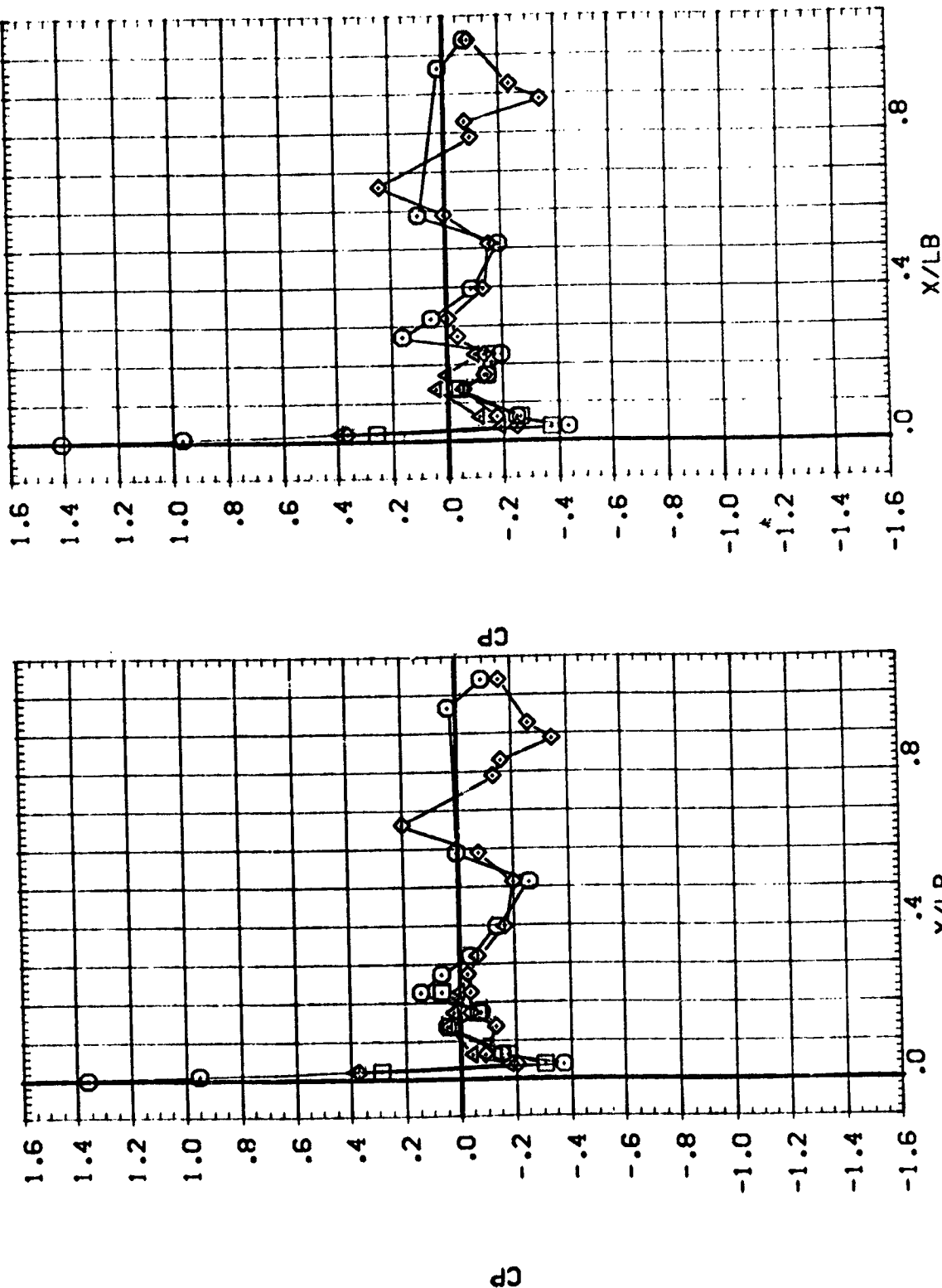
SYMBOL
○ □ ◇ △

PHI
.000
20.000
40.000
55.000

ALPHAT
-3.980
.042

MACH
1.249

PARAMETRIC VALUES
BETAT .000 ORBINC .500
RUDDER .000 ELEVON .000
RUDFLR .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AVES 11-707 CAS 32A + S3 ORBITER FUSELAGE (RBM302)

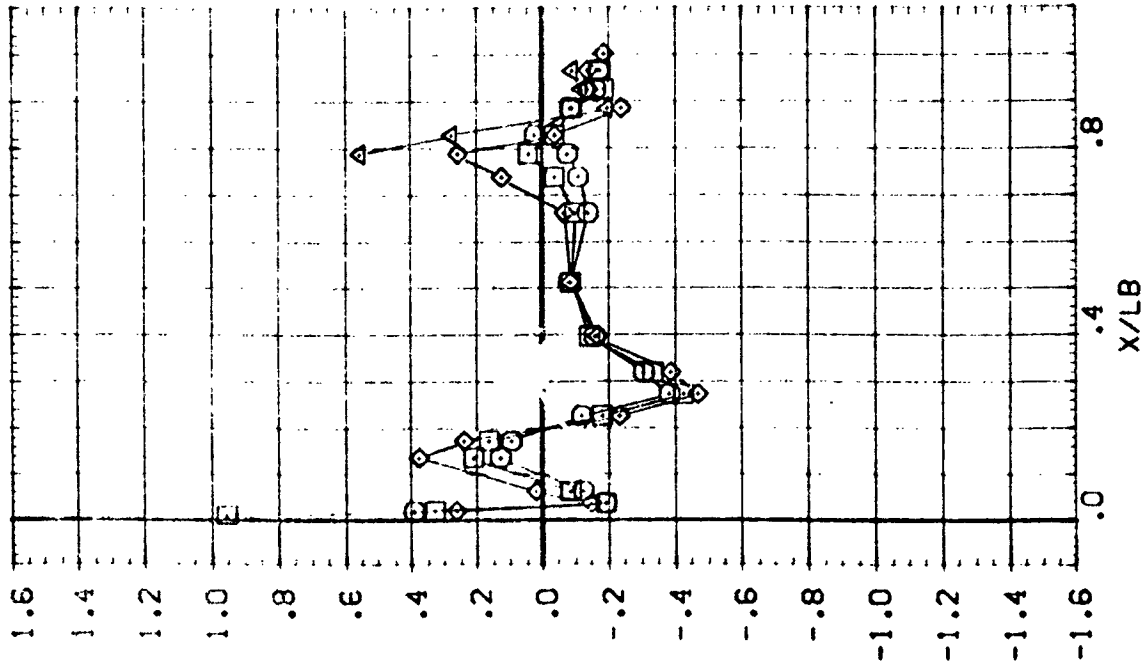
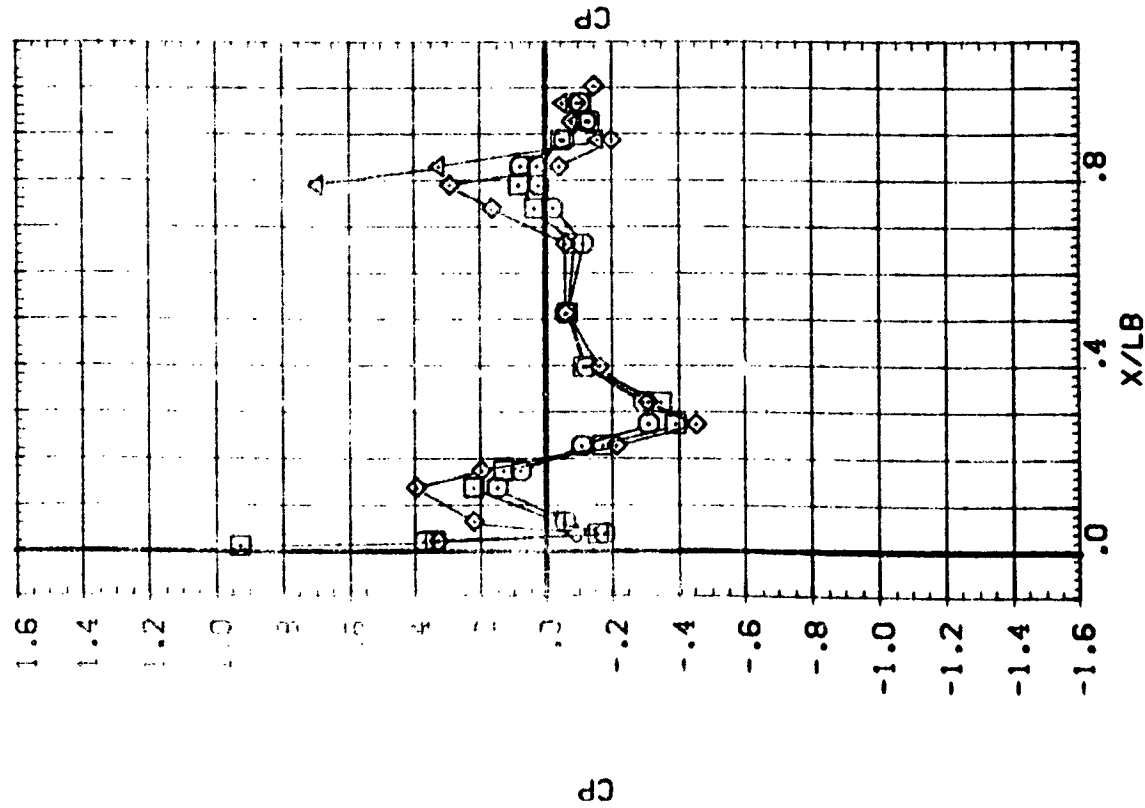
SV32

PH.
70.000
80.000
90.000
100.000
110.000

ALPHAT
-3.980
.340

MACH
1.249

PARAMETRIC VALUES
BETAT .000 ORBINC .500
RUDER .000 ELEVON .000
RUFLR .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES



AMES 11-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (RBMB02)

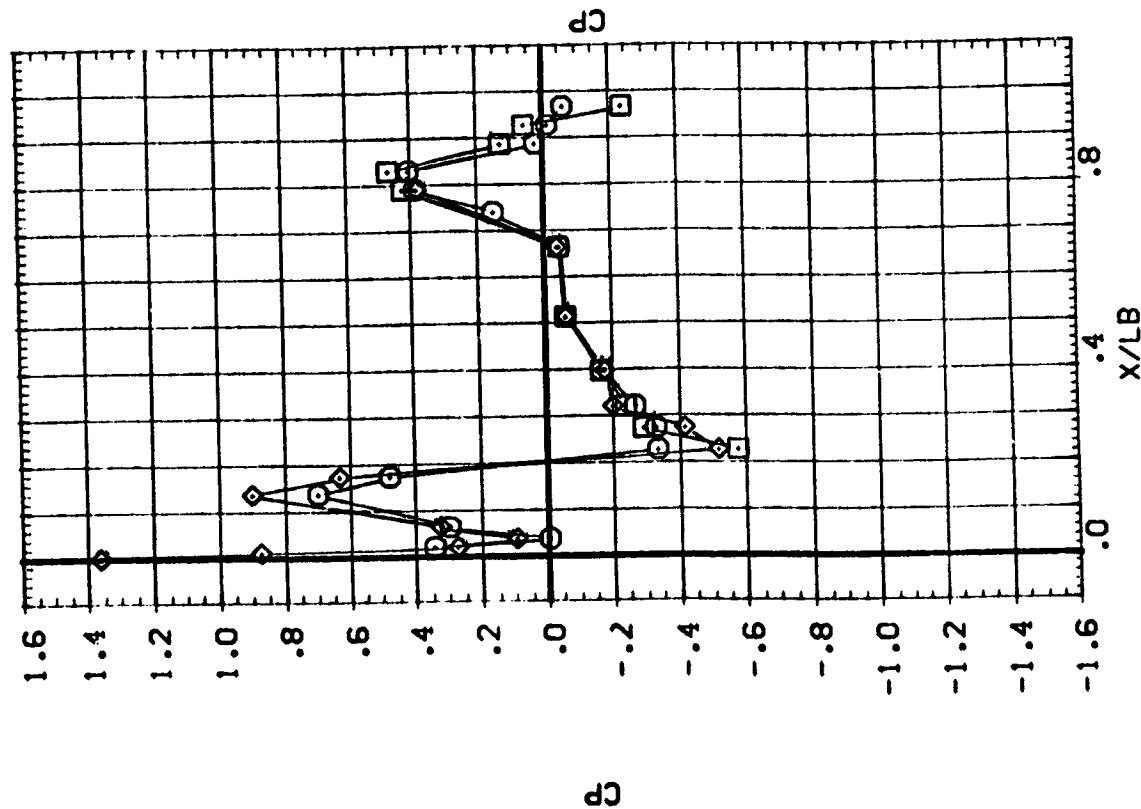
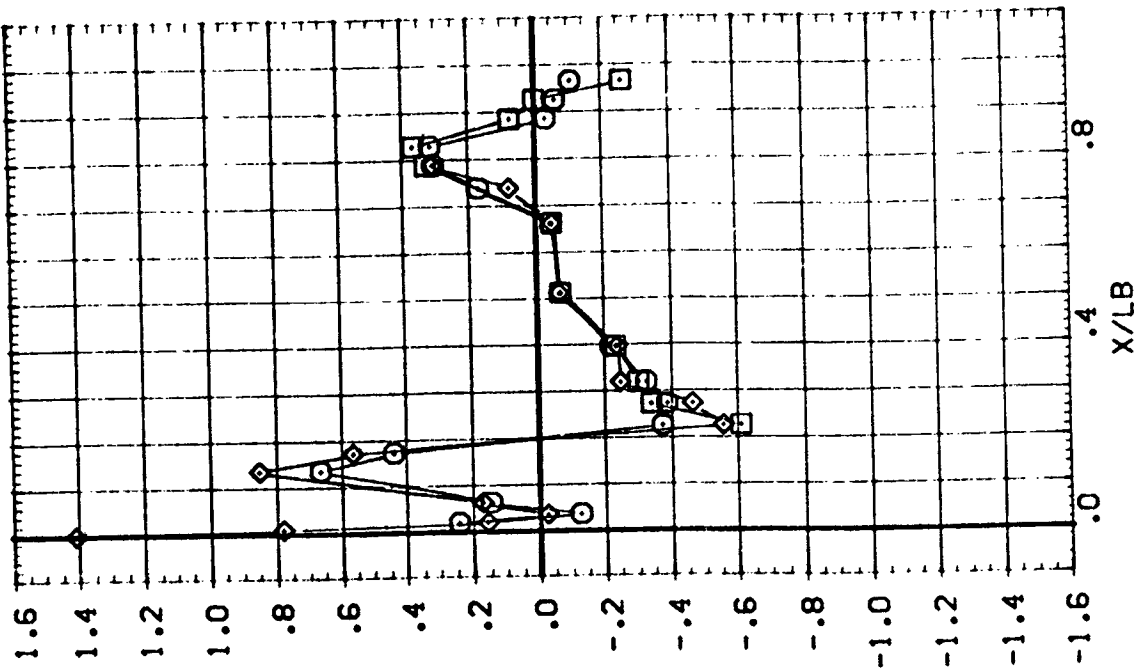
SYMBOL
 ○
 □
 ◇

PH: 150.000
 165.000
 180.000

ALPHAT MACH
 -3.980 1.249
 .040

PARAMETRIC VALUES
 BETAT .000
 RUDER .000
 RUDFLR .000

ORBITNC .500
 ELEVCH .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AVES 11-707 1A9 02A - S3 - 19 ORBITER FUSELAGE (RBV302)

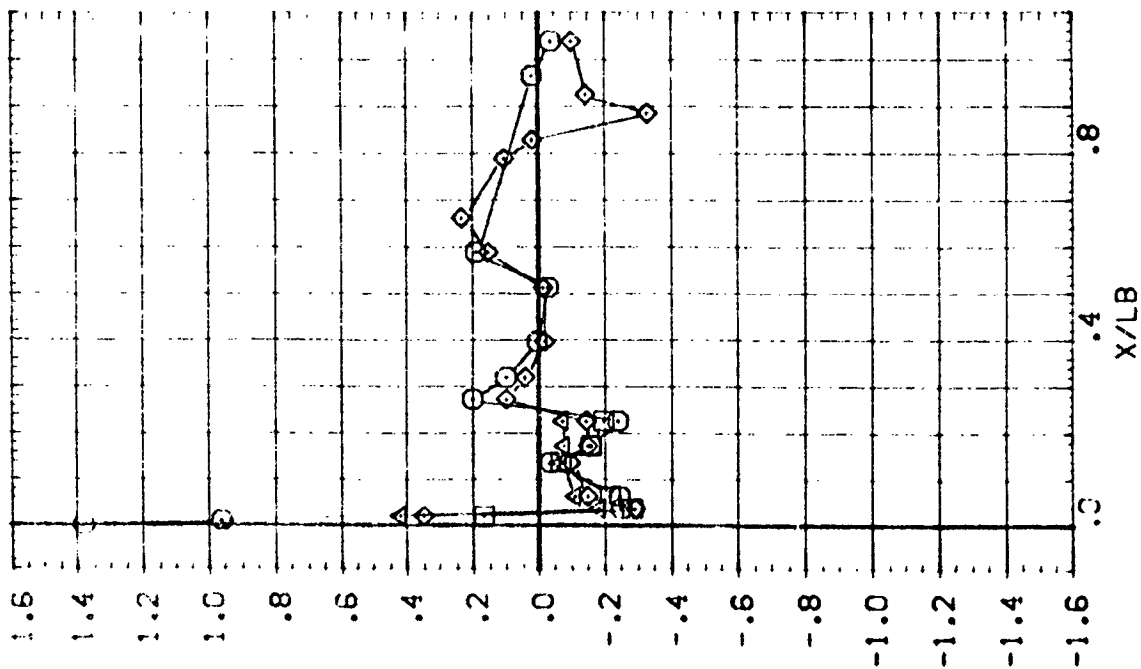
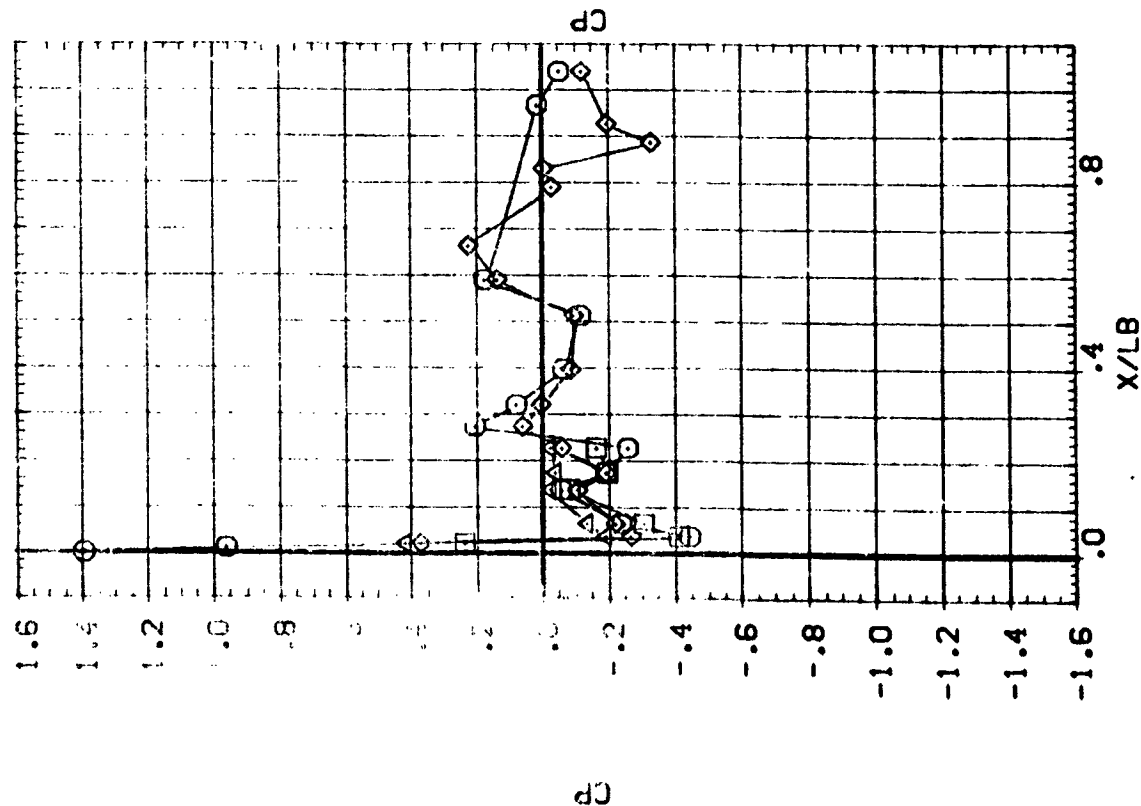
SYMBOL

REF. 1000
20,000
40,000
55,000

ALPHA 3.970
MACH 7.980

PARAMETER VALUES

BETA 1.000
RUDER 1.000
RUFLR 1.000
ORBITING 1.500
ELEVON 1.000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES



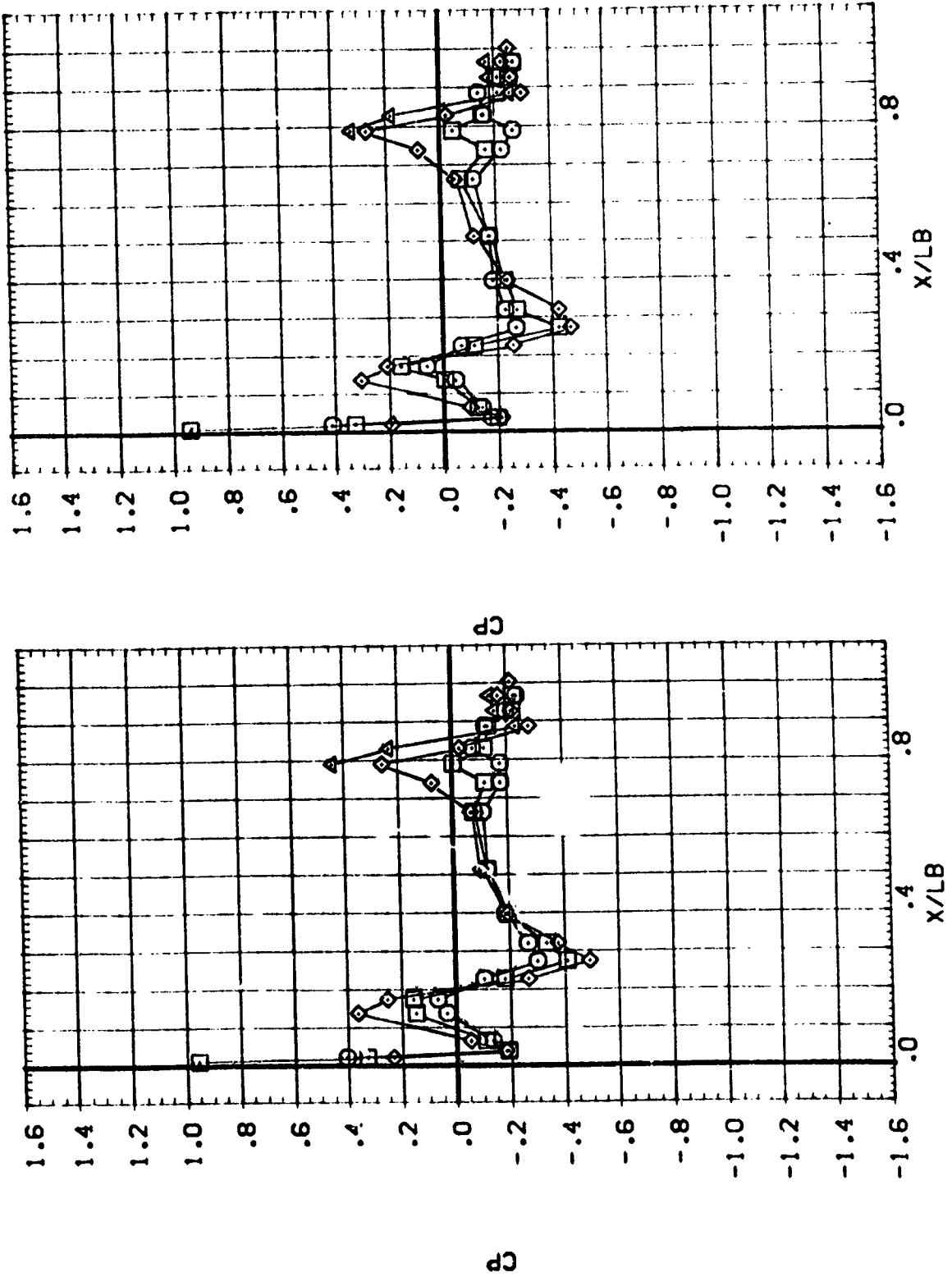
AMES 11-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (RBM802)

SYMBOL
 70.000
 90.000
 120.000
 135.000

ALPHAT
 3.970
 7.980

MACH
 1.245

PARAMETRIC VALUES
 BETAT
 RUDDER
 RUDFLR
 .000
 .000
 .000
 .500
 .000
 .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES



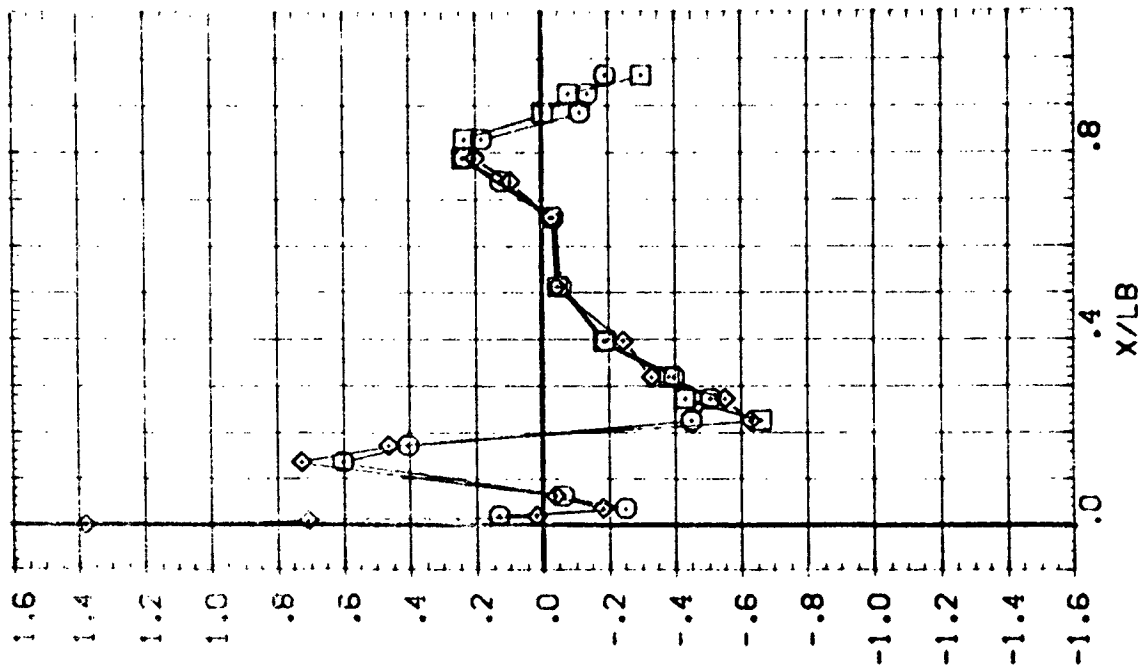
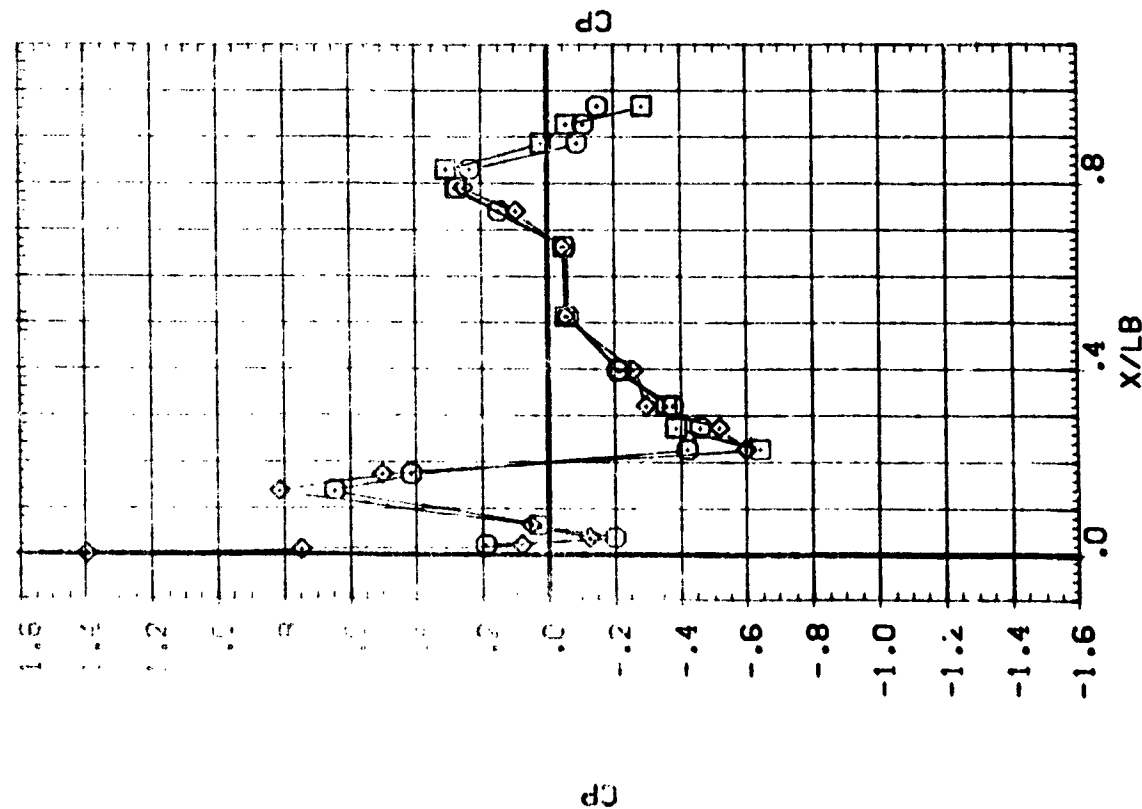
SVES 11-707 1A9 02A - S3 + 19 ORBITER FUSELAGE (RBMB02)

SYNOPSIS
150,000
165,000
180,000

ALPHA
3.970
1.980

MACH
0.45

PARAMETER VALUES
BETAT .000
RUDDER .000
RUDDER .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

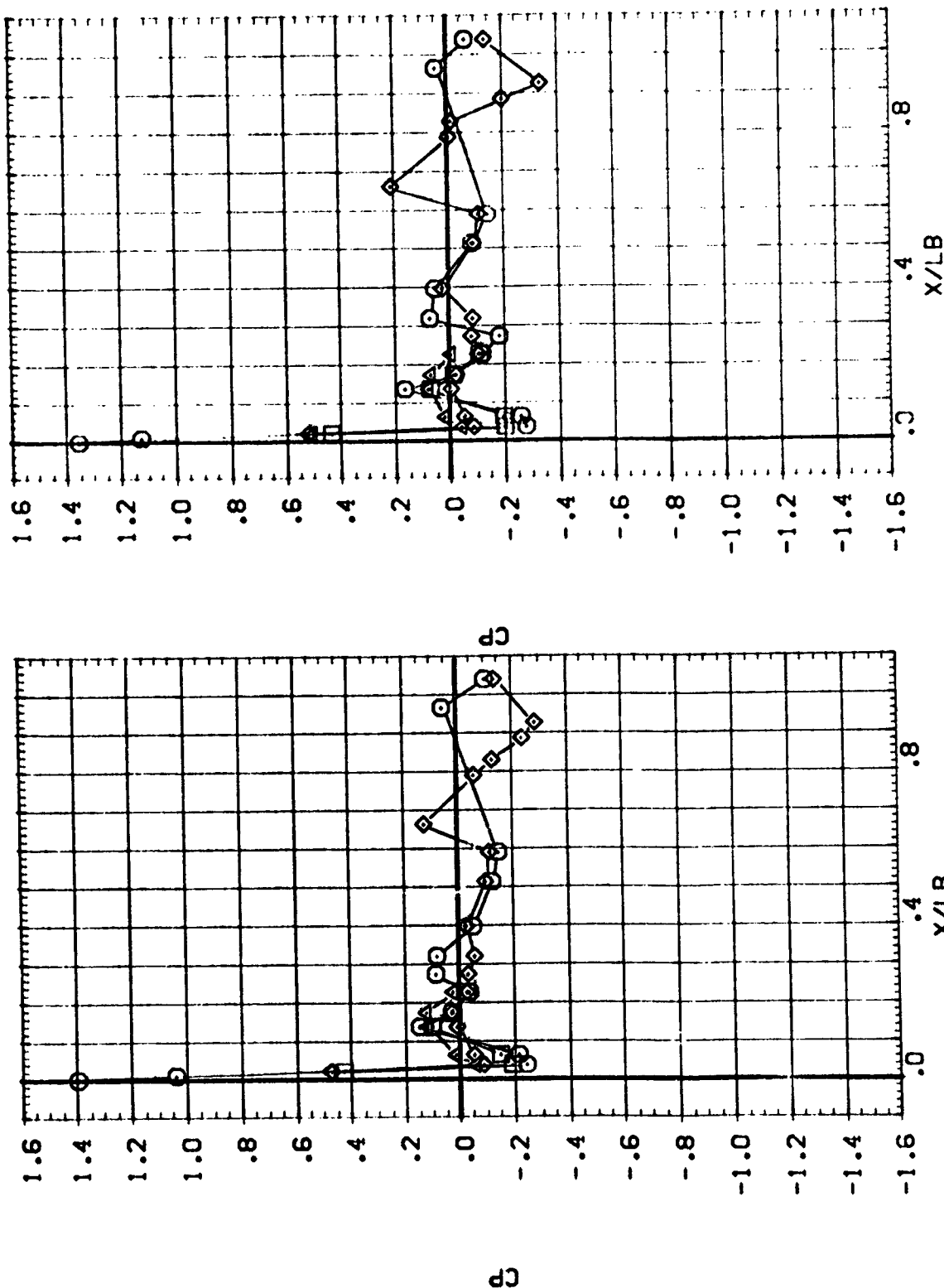


AMES 11-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (RBM002)

PNT
 000
 20.000
 40.000
 55.000

ALPHA1 MACH
 -3.980 1.396
 .040

PARAMETRIC VALUES
 BETAT .000 OFFINC .500
 RJ00ER .000 ELEVON .000
 RJ0FLR .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 11-707 TAG 02A - 50 + 79 ORBITER FUSELAGE (98M802)

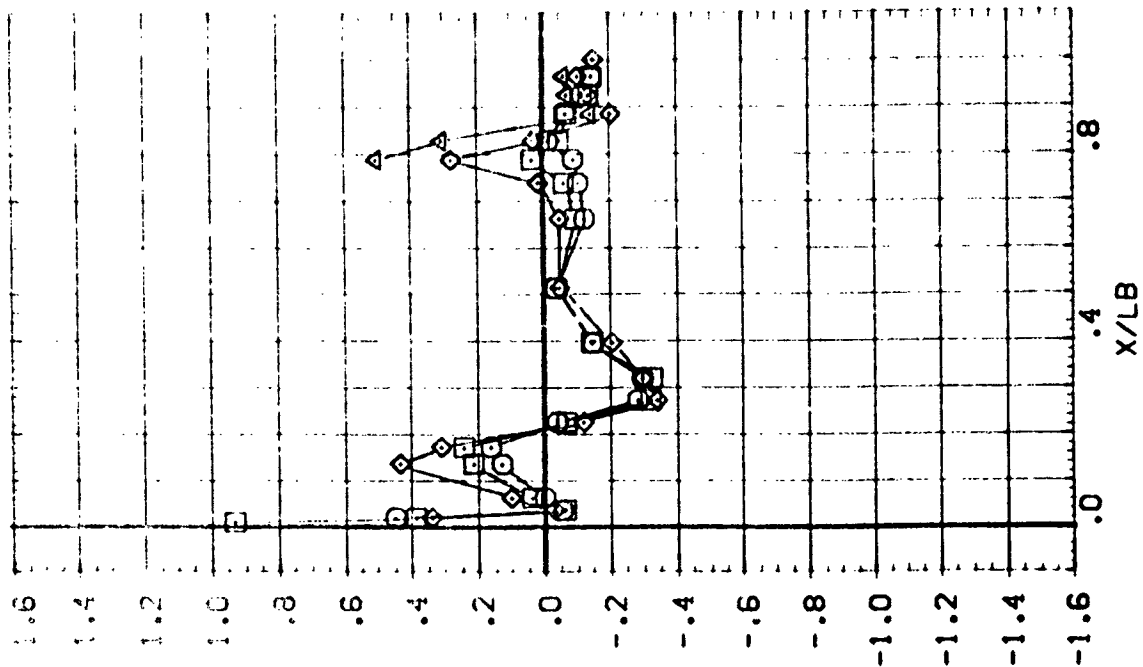
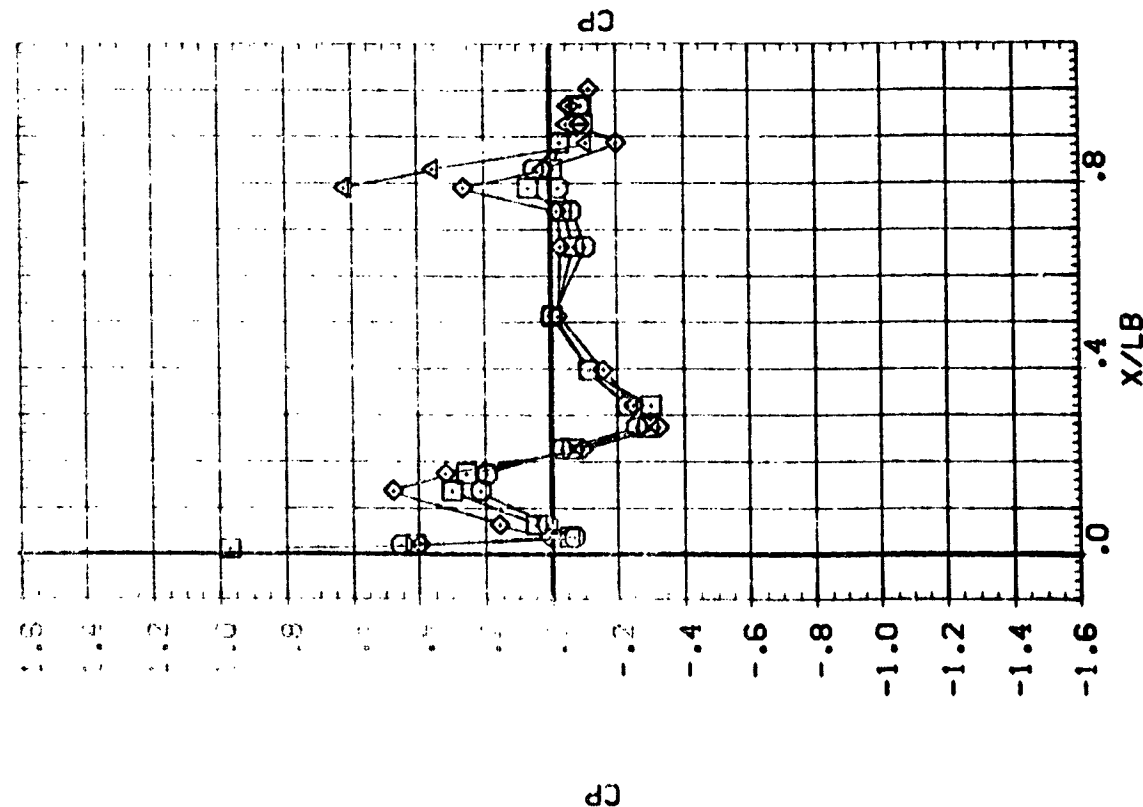
SYMBOL

70.000
80.000
100.000
120.000
135.000

ALPHAT MAC-
-3.980 1.395
-0.40

PARAMETRIC VALUES

RE*AT
RLOD*P
RLOD*P
0.000 0.000 0.000
0.000 0.000 0.000
0.000 0.000 0.000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES



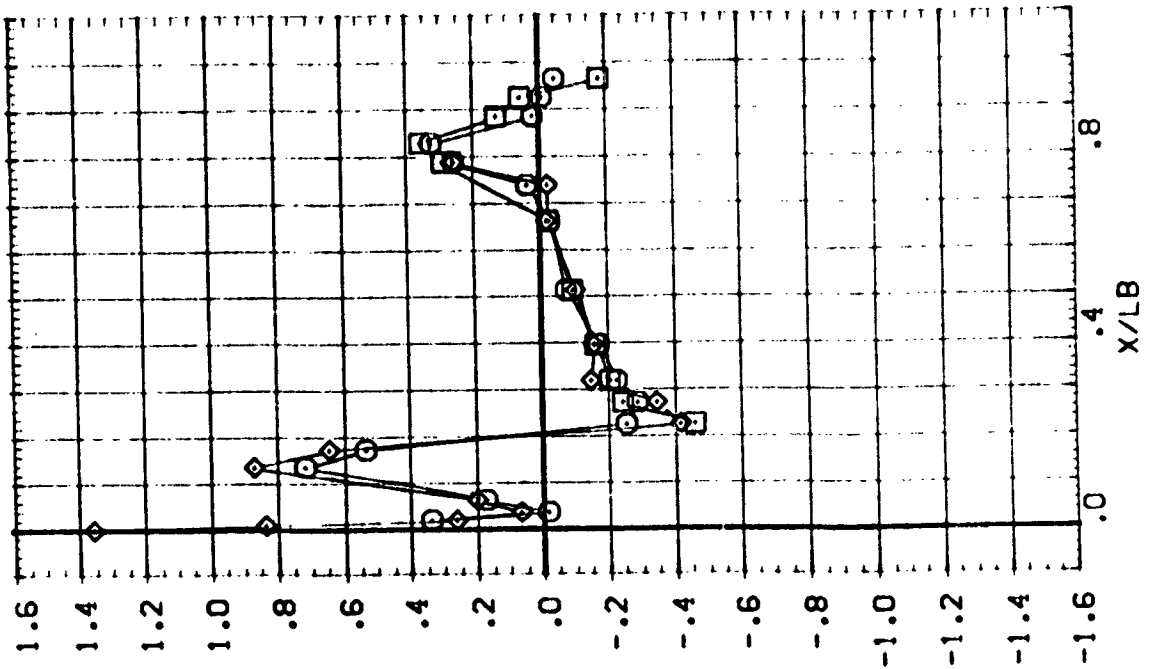
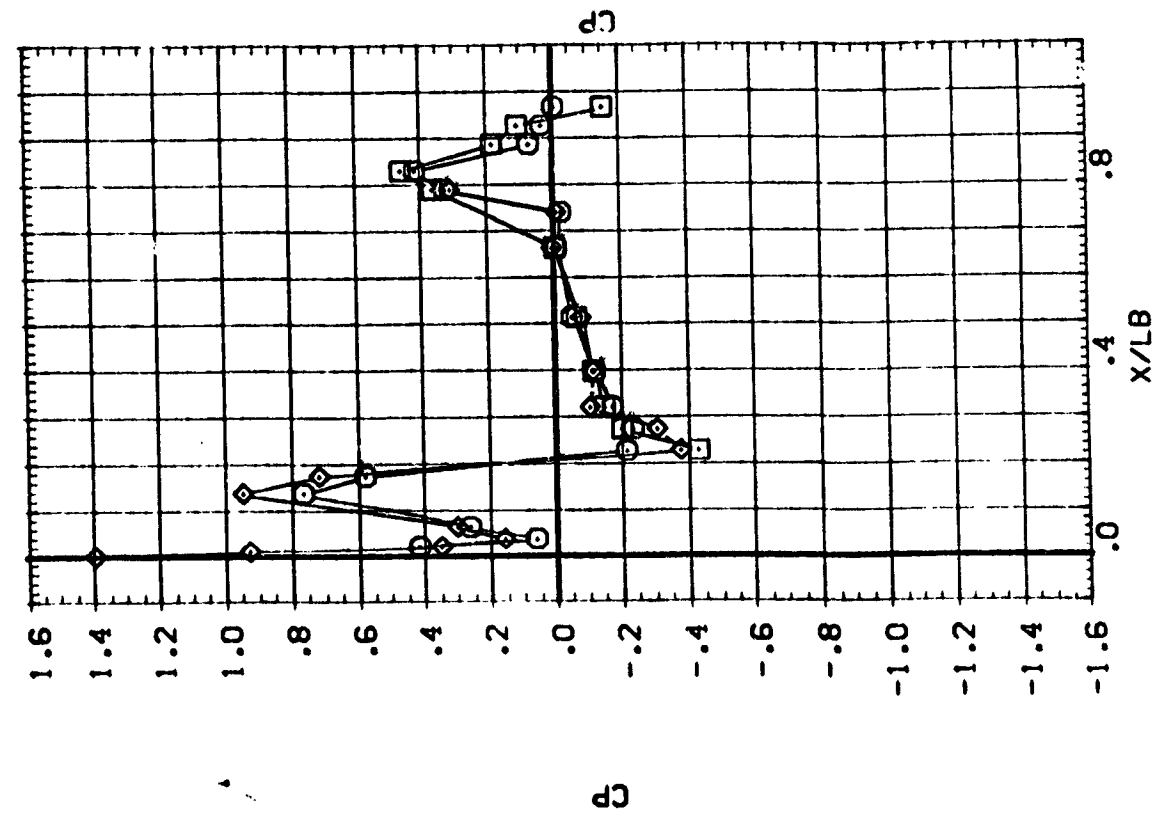
AMES 11-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (RBMB02)

SYMBOL
 ○ □ ◇

PH: 150.000
 165.000
 180.000

ALPHAT MACH
 -3.980 1.356
 .040

PARAMETRIC VALUES
 BETAT .000 ORBINC .500
 RUJDER .000 ELEVON .000
 RUJFLR .000



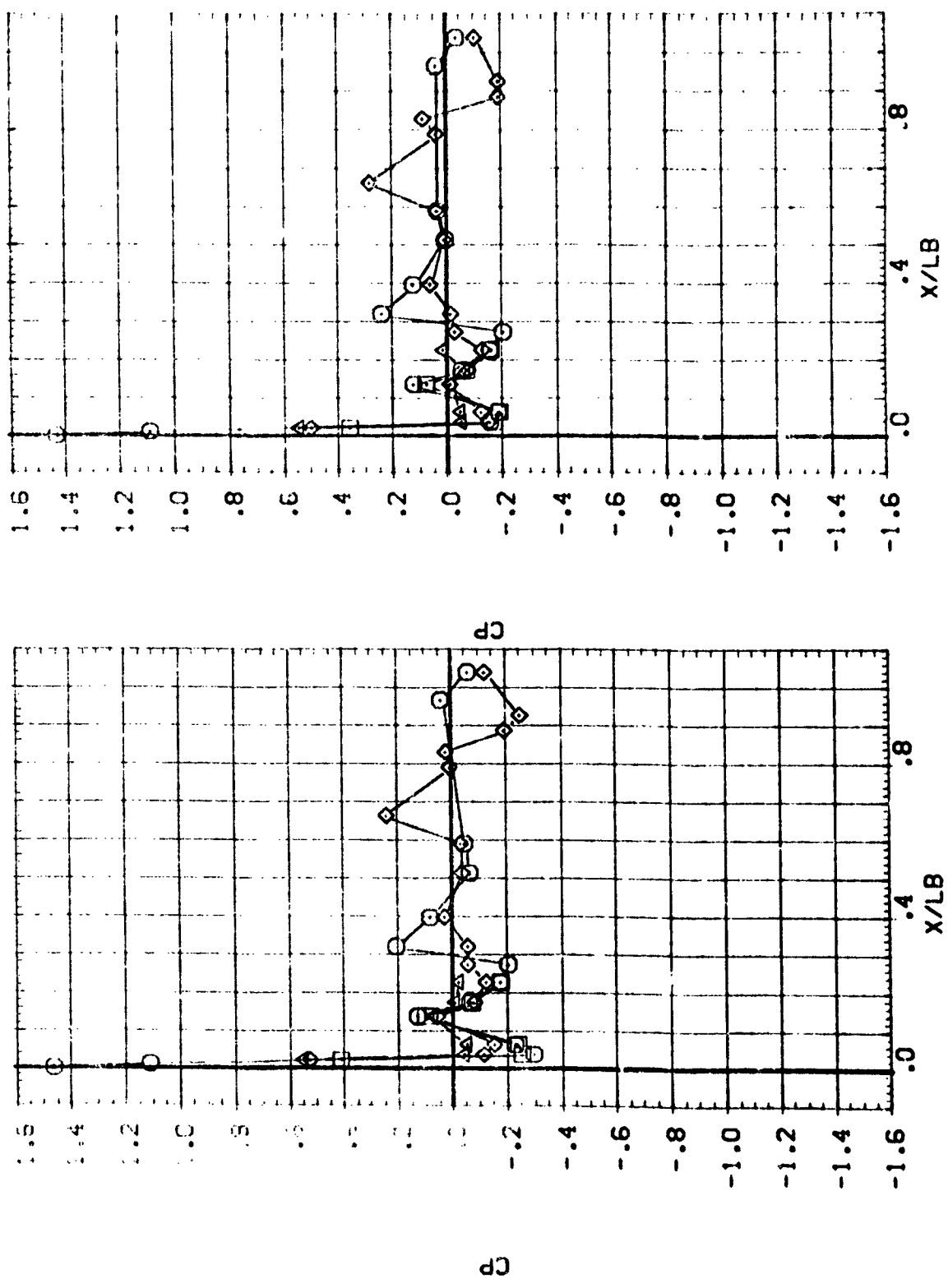
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 11-707 TAB 02A + S3 + 10 ORBITER FUSELAGE (RBMB02)

PARAMETRIC VALUES
 BETAT .000
 GAMMA .000
 RDELTA .000

SYMBOLS
 1000
 20000
 40000
 60000
 80000

ALPHA 3.960
 MACH 1.394
 7.990



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES



AMES 11-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (RBMB02)

SYMBOL PH: ALPHAT MACH

○ 70.000 3.960 1.334

□ 90.000 7.990

◇ 120.000

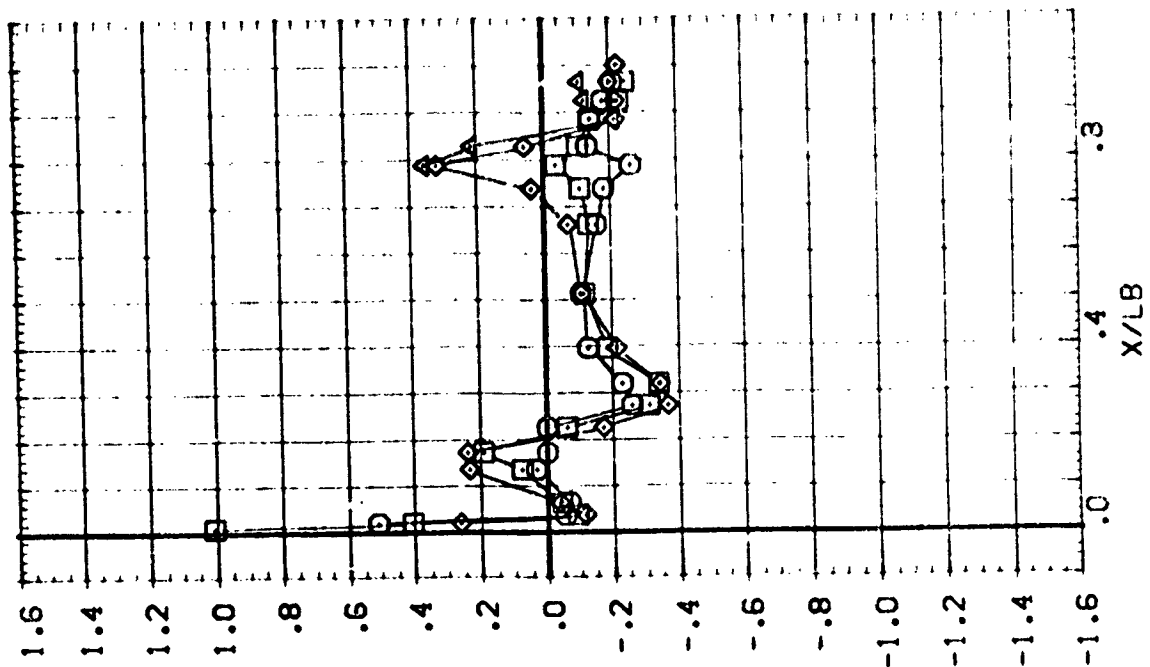
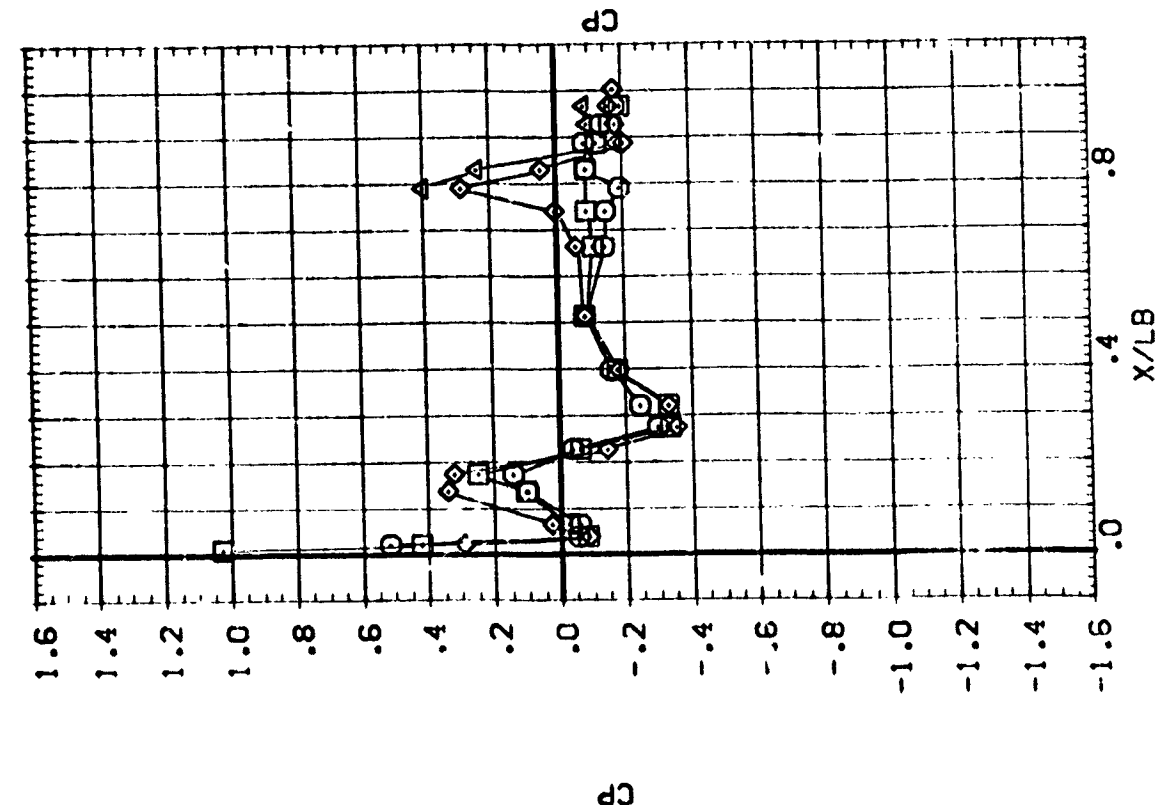
△ 135.000

PARAMETRIC VALUES

BETAT .000 CRBINC .000

RJDDER .000 ELEVON .000

RJDFLR .000



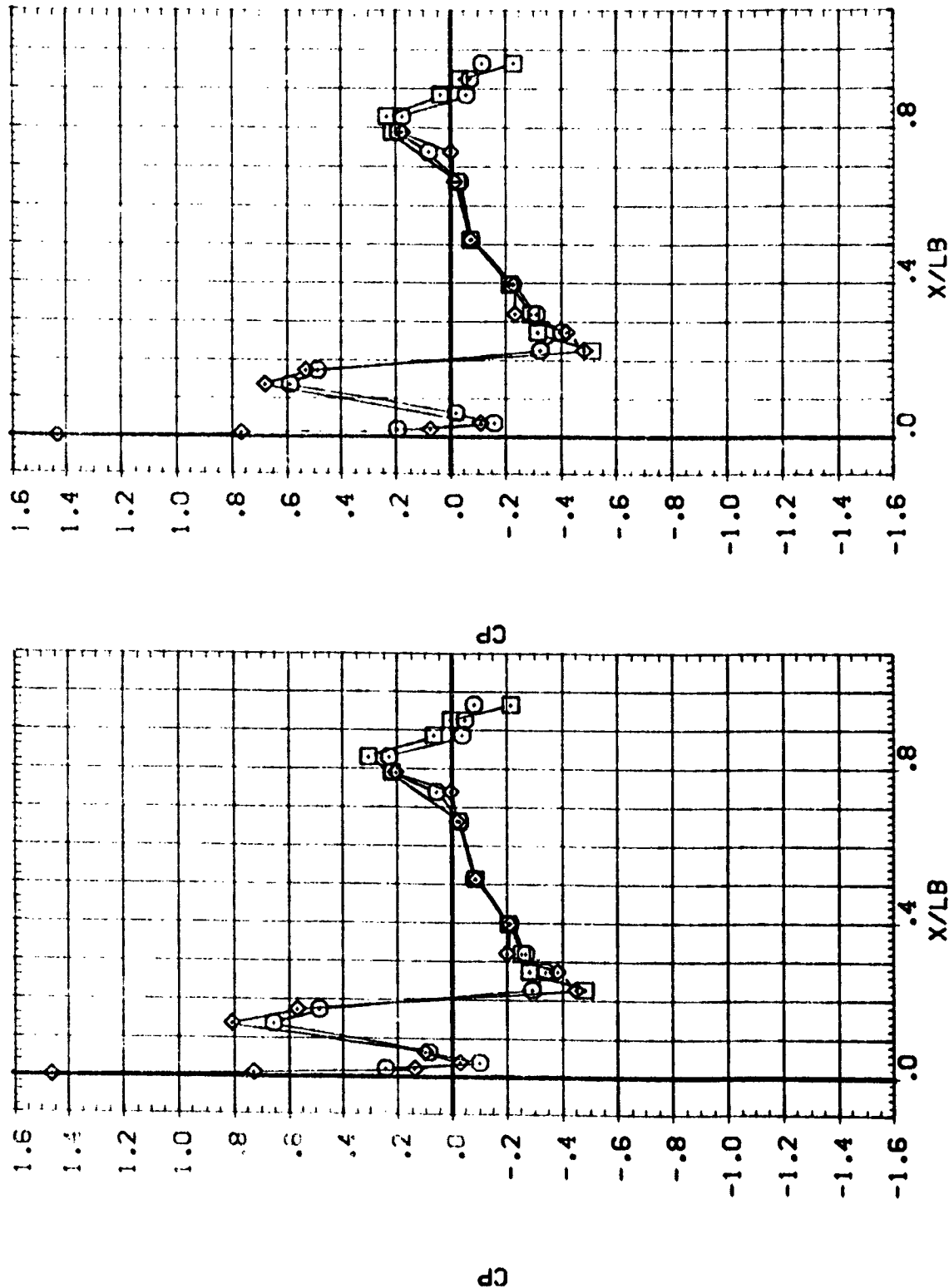
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AVES 11-707 1A9 02A + S3 + 19 ORBITER FUSELAGE (RBY802)

SYMBOL
CHIO

RE: ALPHA MAC
150,000 3.953 1.394
165,000 7.992
180,000

PARAMETRIC VALUES
BETAT .000 ORBINC .500
RCDER .000 ELEVON .000
RCDYLR .000

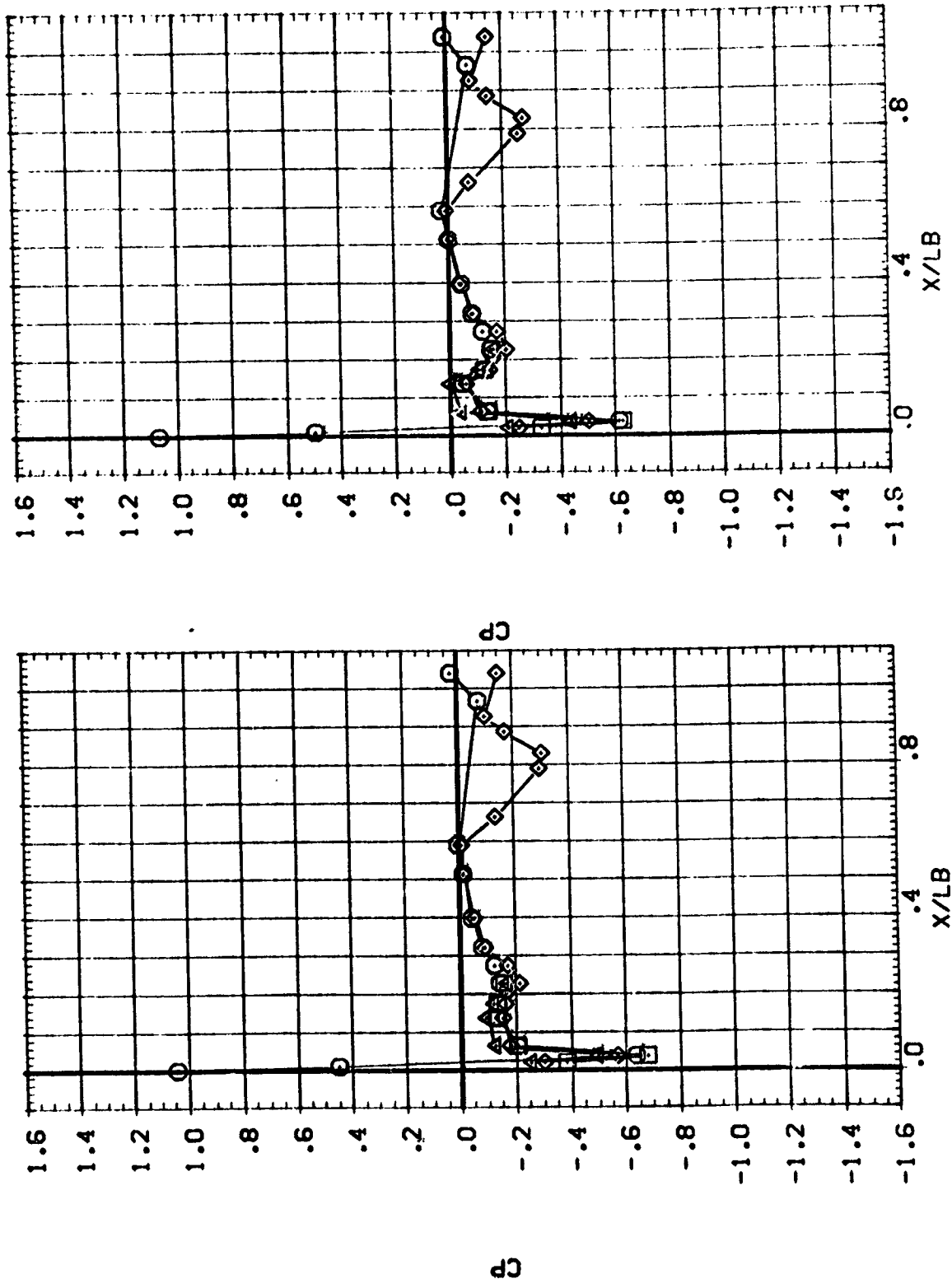


LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES



AMES 11-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (RBMB44)

SYMBOL	PH:	ALPHAT	MACH	PARAMETRIC VALUES			
	.000	-3.990	.598	BETAT	.000	ORBITC	-1.200
	20.000	.060		RJDER	.000	ELEVON	.000
	40.000			RJDFLR	.000		



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES



AVES 11-707 :A9 C2A + S3 + T9 ORBITER FUSELAGE (RBMB44)

SYMBOL

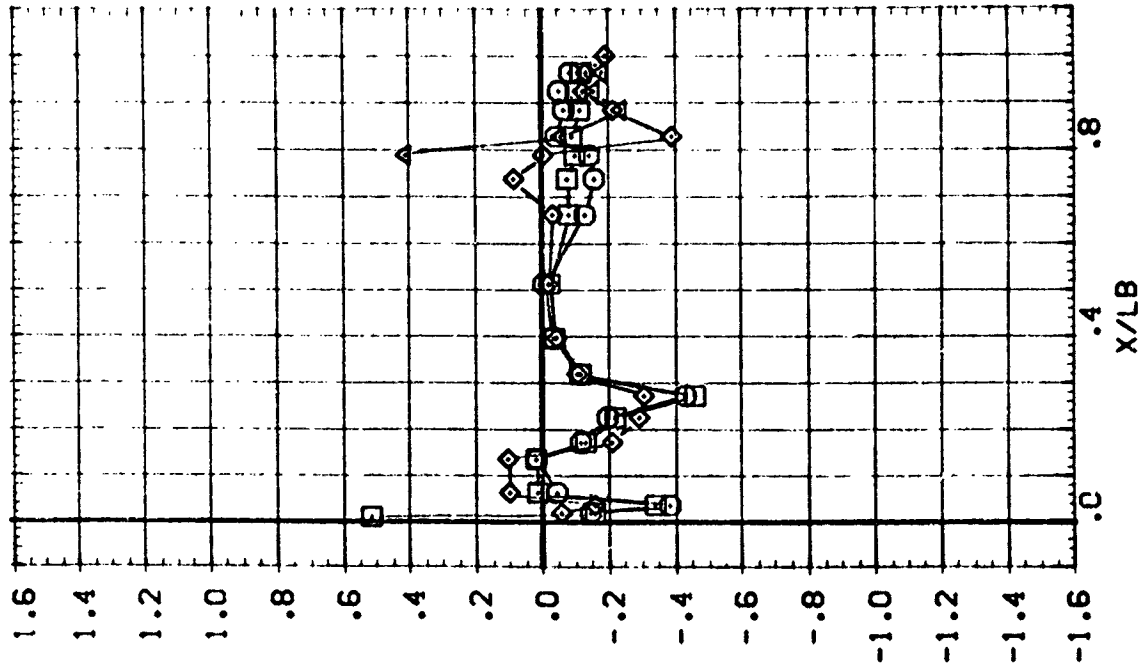
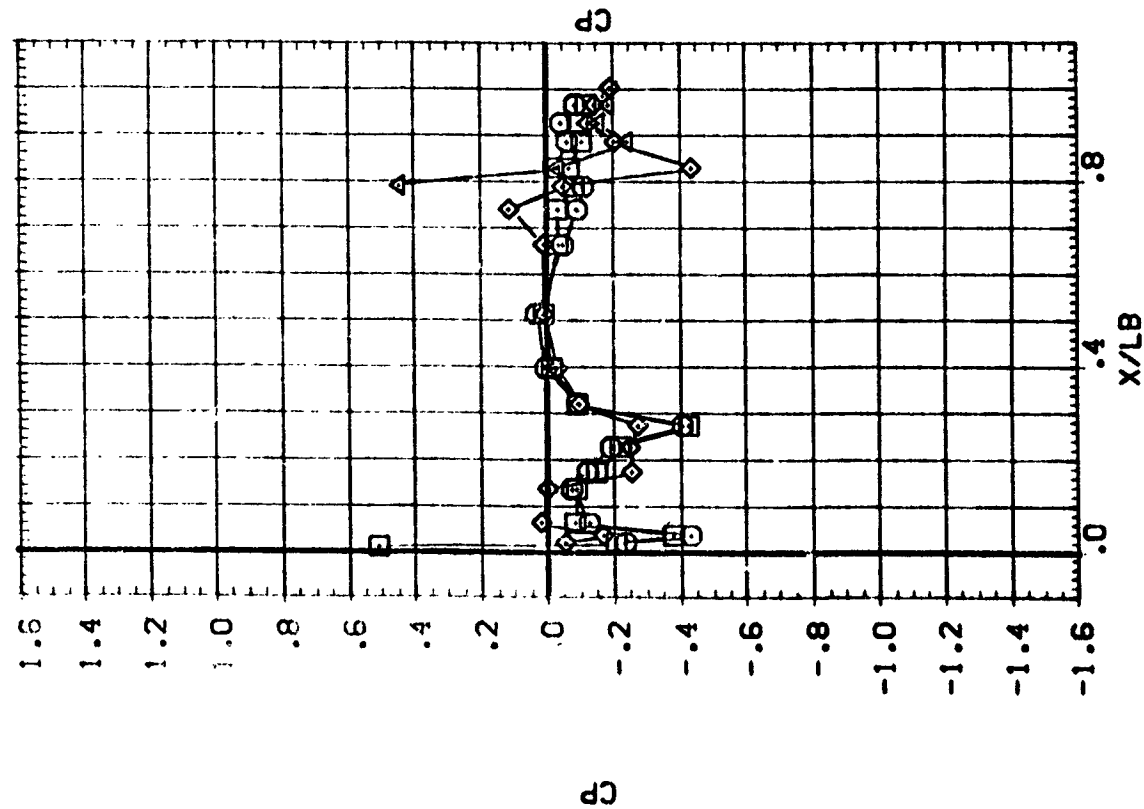
70.000
90.000
120.000
150.000

ALPHAT
-3.990
.060

MACH
.598

PARAMETRIC VALUES

BETAT .000 ORBINC -1.200
RUDDER .000 ELEVON .000
RUOFLR .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

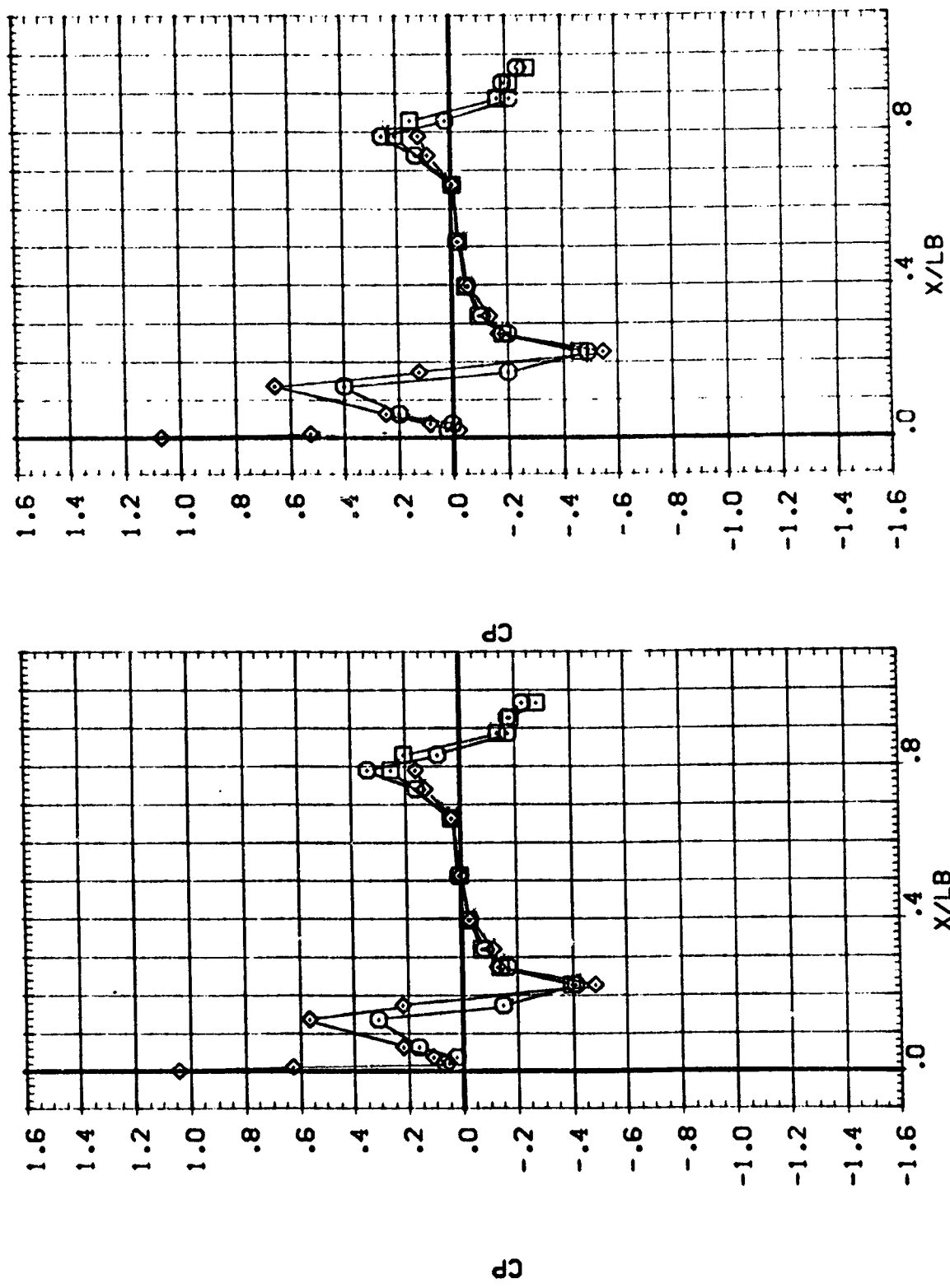


1

AMES 11-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (RBMB44)

SYMBOL	PHI	ALPHAT	MACH	BETAT	ORBITING	ELEVON
○	150.000	-3.990	.598	.000	.000	.000
□	165.000	.060		.000		
◇	180.000					

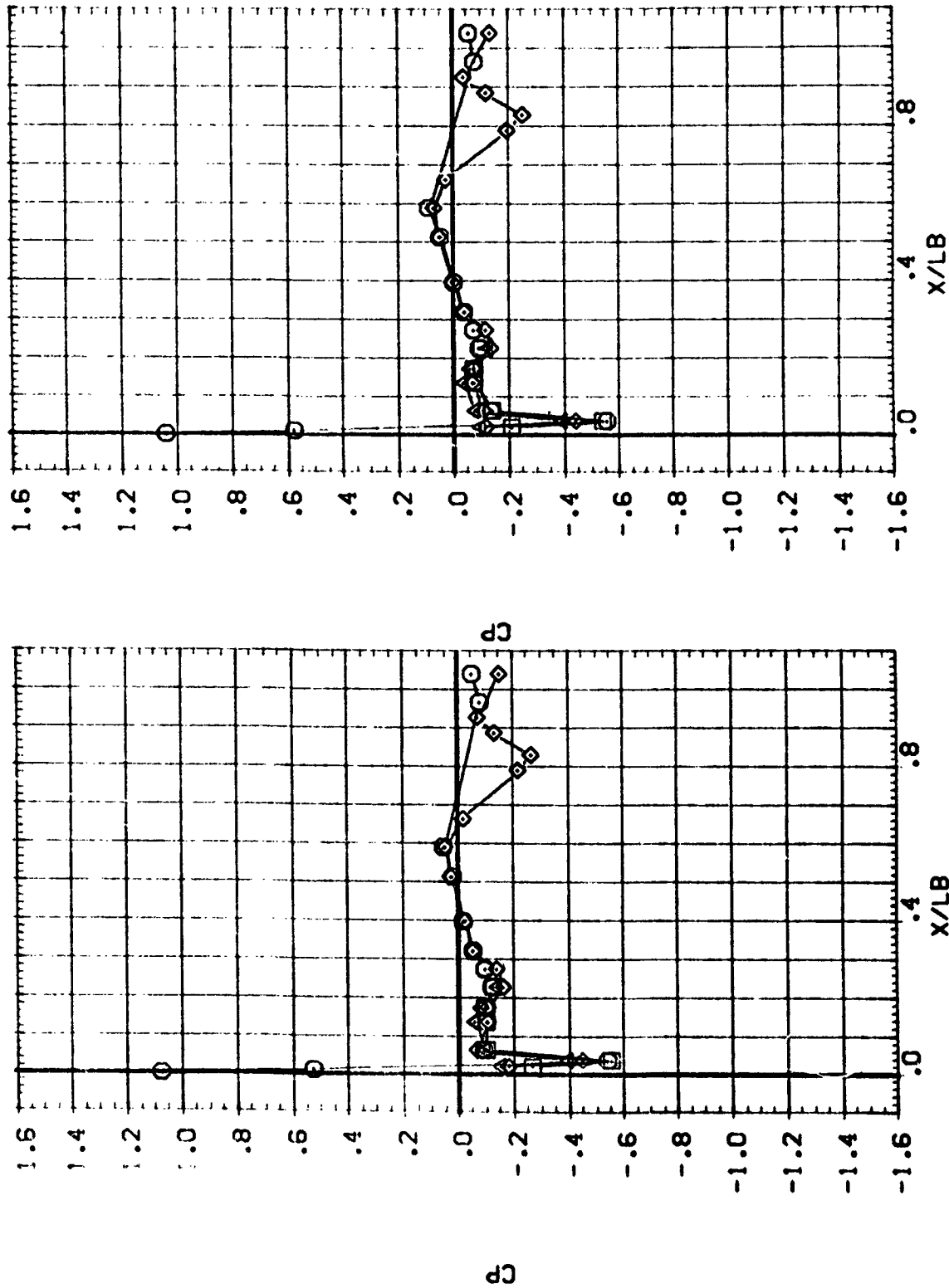
PARAMETRIC VALUES



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 11-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (RBMB44)

SYMBOL	PHI	ALPHA	MACH	PARAMETRIC VALUES		
011000	.000	4.010	.600	BETAT	.000	ORBITC
011000	20.000	8.020		RJODER	.000	ELEVON
011000	40.000			RJOFLLR	.000	
011000	55.000					



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES



AMES 11-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (RBMB44)

SYMBOL
 ○ □ ◇ △

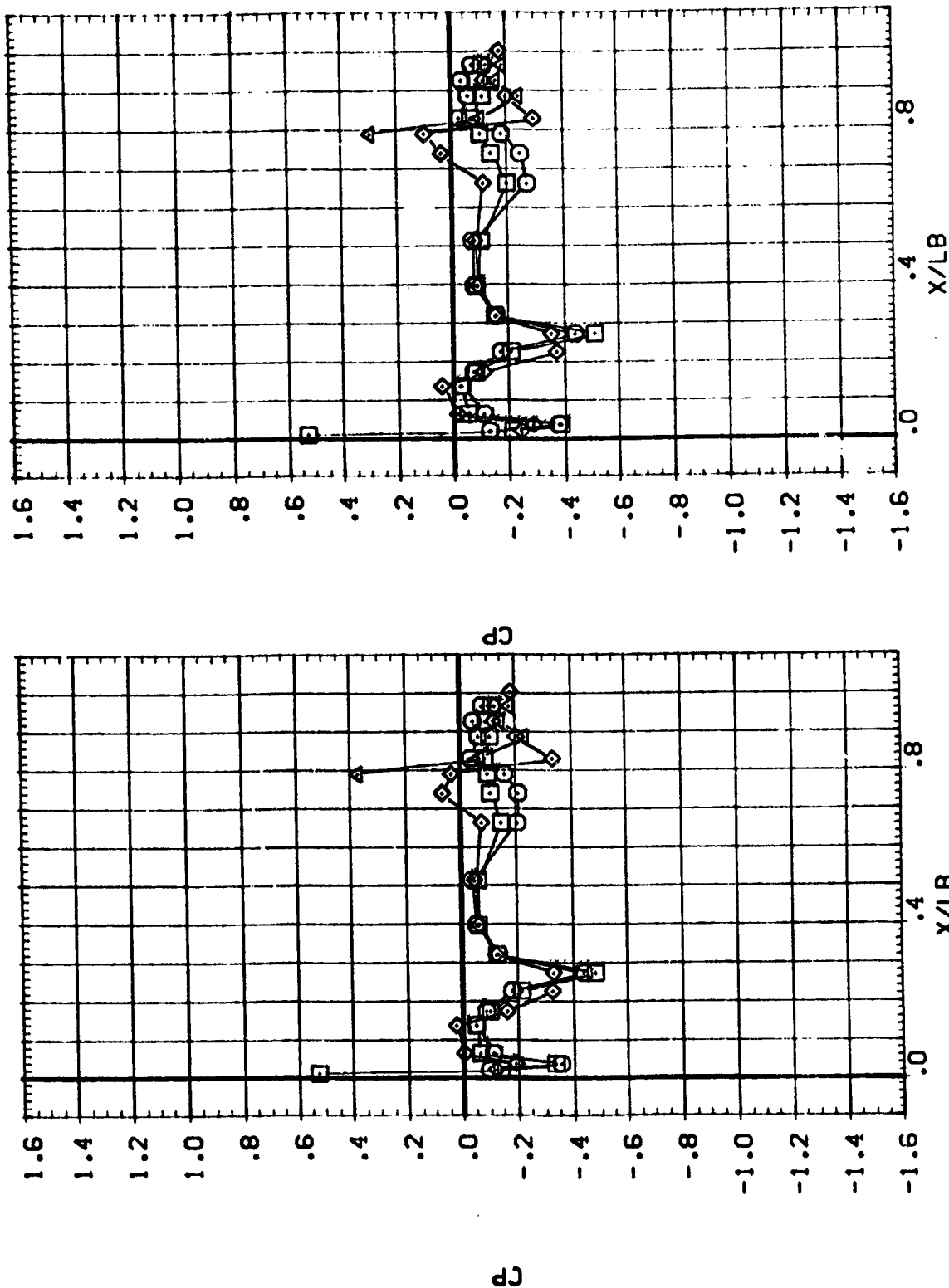
PHI 70.000
 90.000
 120.000
 135.000

ALPHAT 4.010
 8.020

MACH .600

PARAMETRIC VALUES
 BETAT .000
 RUDDER .000
 RUOFLR .000

ORBITING -1.200
 ELEVON .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

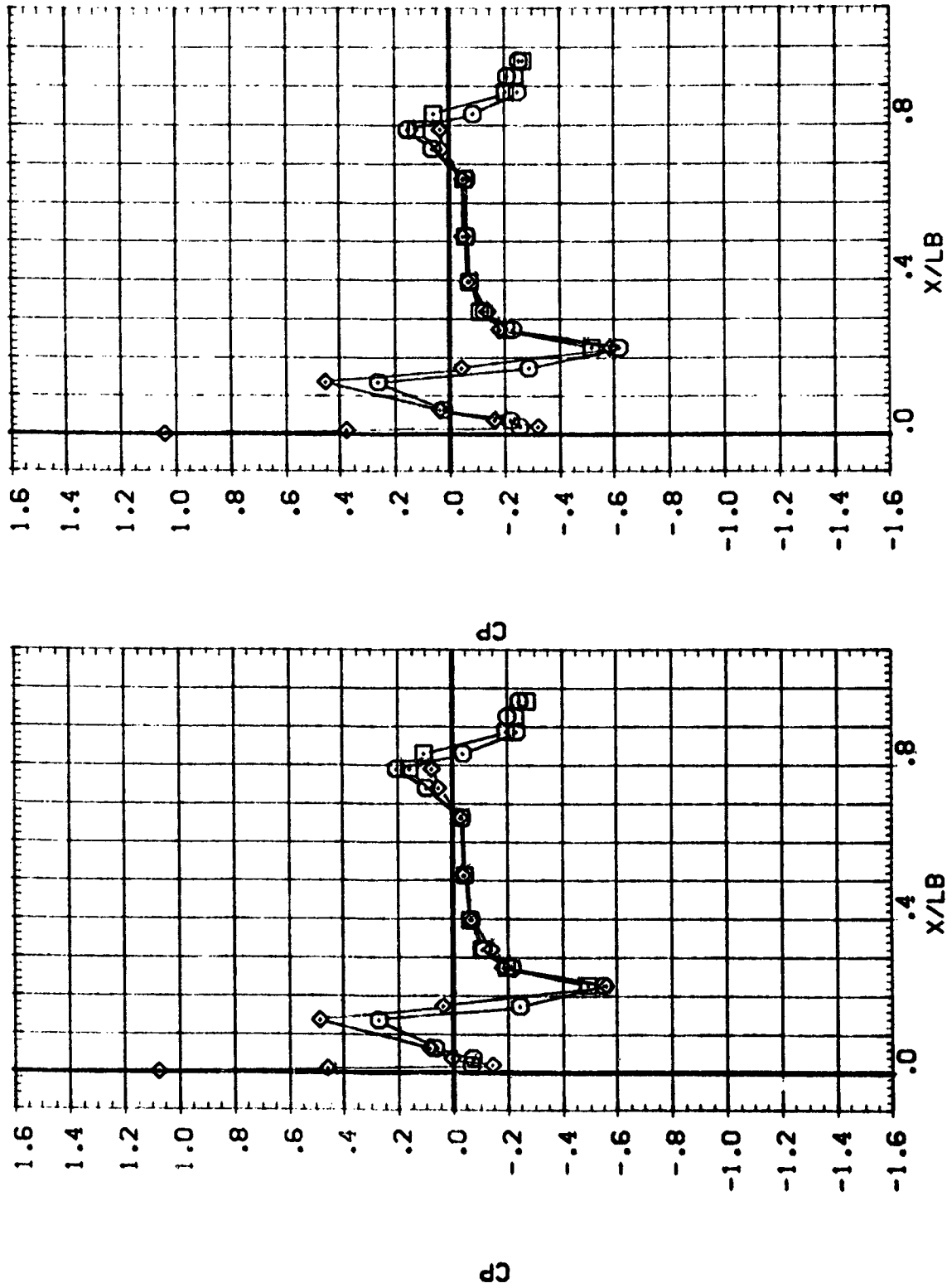
AMES 11-707 1A9 C2A + S3 + T9 ORBITER FUSELAGE (RBMB44)

SYMBOL
 ○ □ ◇

PHI
 150.000
 165.000
 180.000

ALPHA-T MACH
 4.010 .600
 8.020

PARAMETRIC VALUES
 BETAT .000 ORBINC -1.200
 RUDDER .000 ELEVEN .000
 RUFLR .000





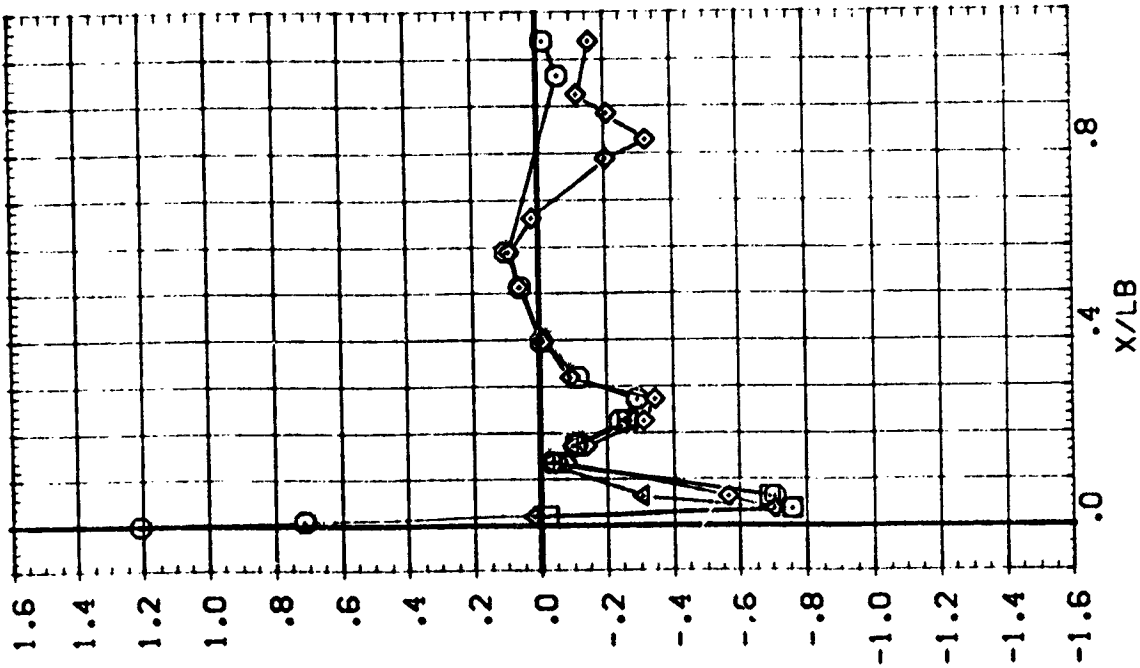
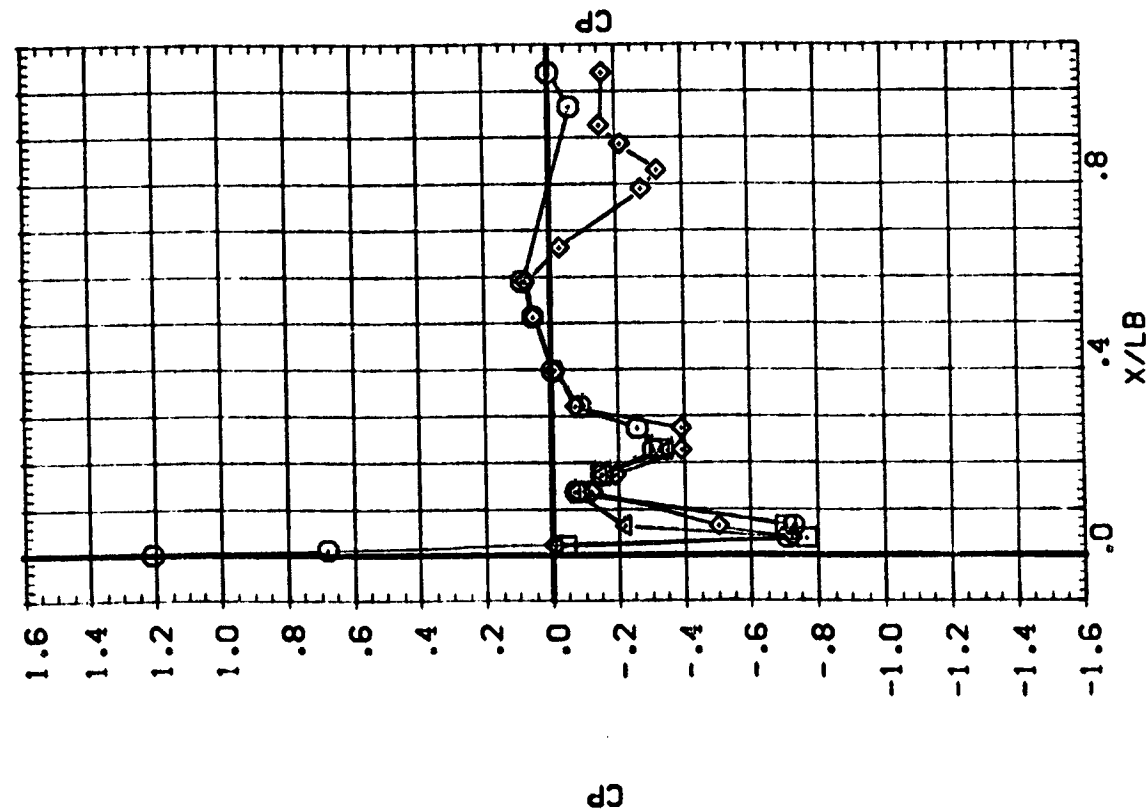
AMES 11-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (R8M844)

SYMC. ☐ ☐ ☐

PHI: .000
20.000
40.000
55.000

ALPHAT MACH
-4.020 .899
.010

PARAMETRIC VALUES
BETAT .000 ORBINC -1.200
RUDDER .000 ELEVON .000
RUDFLR .000

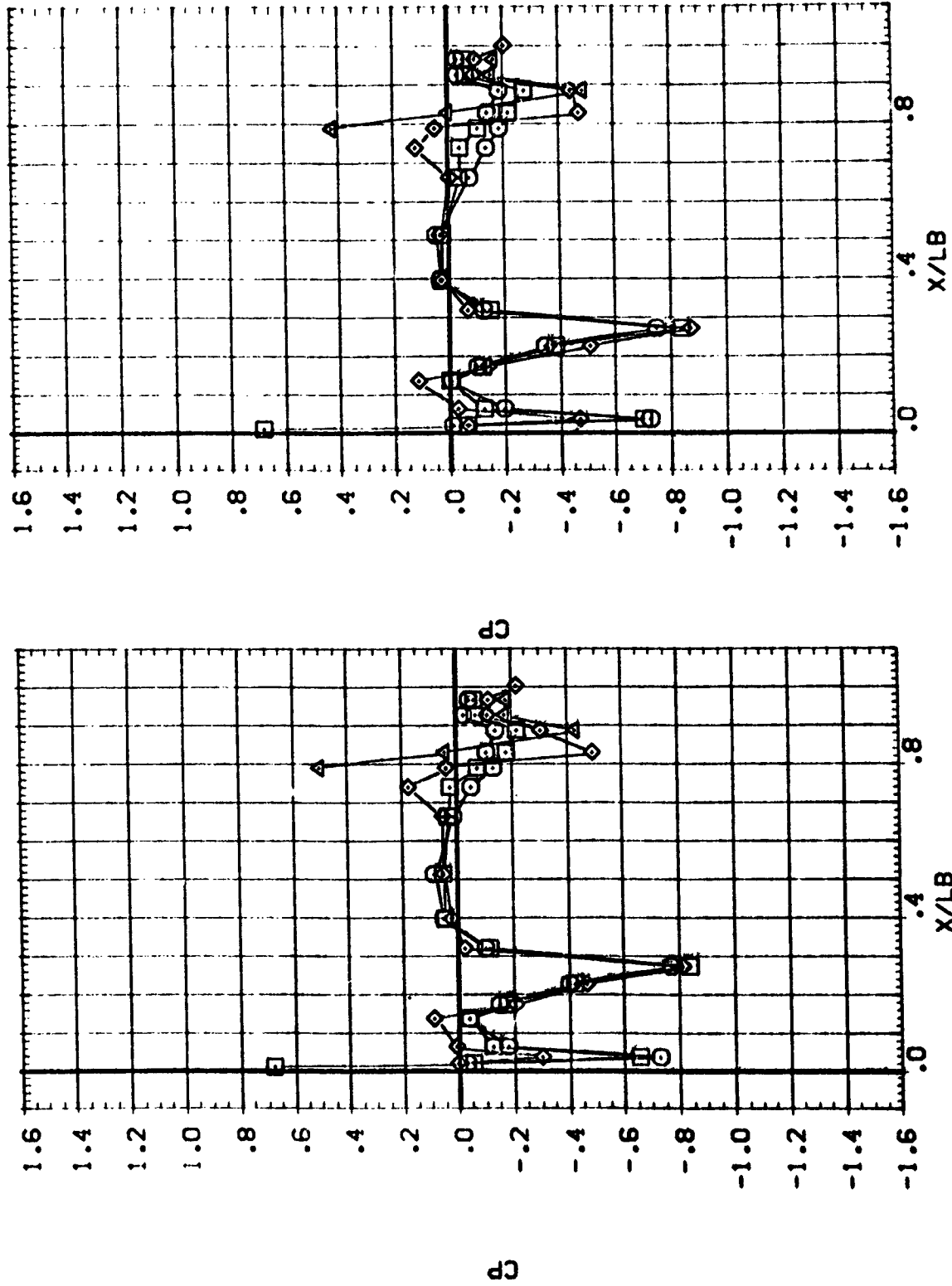


LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 11-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (RBMB444)

PARAMETRIC VALUES
 BETAT .000
 CRBTNC .000
 ELEVON .000
 RUDFLR .000

SYMB: 70.000 90.000 120.000 135.000
 ALPHAT MACH
 -4.020 .899
 .010

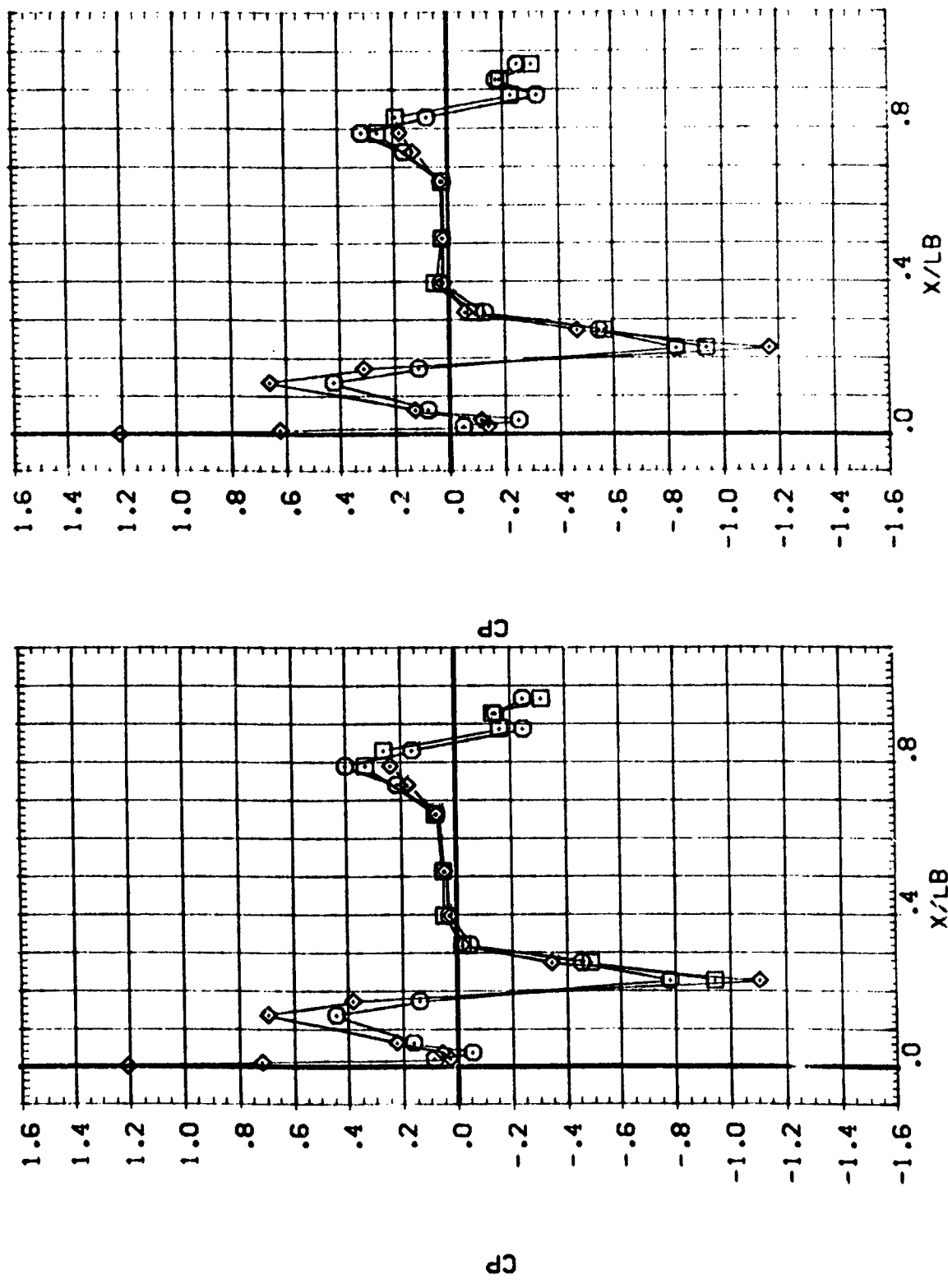


LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES



AMES 11-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (RBMB44)

SYMBOL	PHI	ALPHA	MACH	PARAMETRIC VALUES		
	150.000	-4.020	.889	BETAT	.000	ORBITINC
	165.000	.010		RJDER	.000	ELEVON
	180.000			RJDFLR	.000	

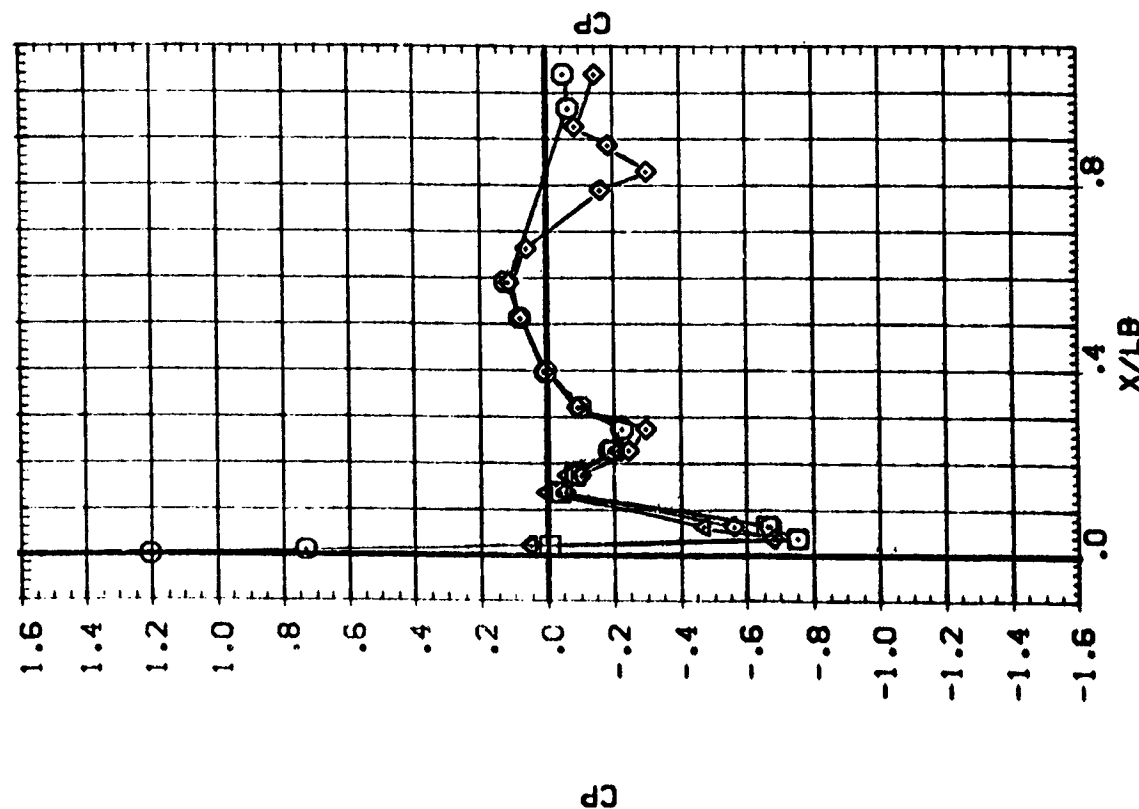
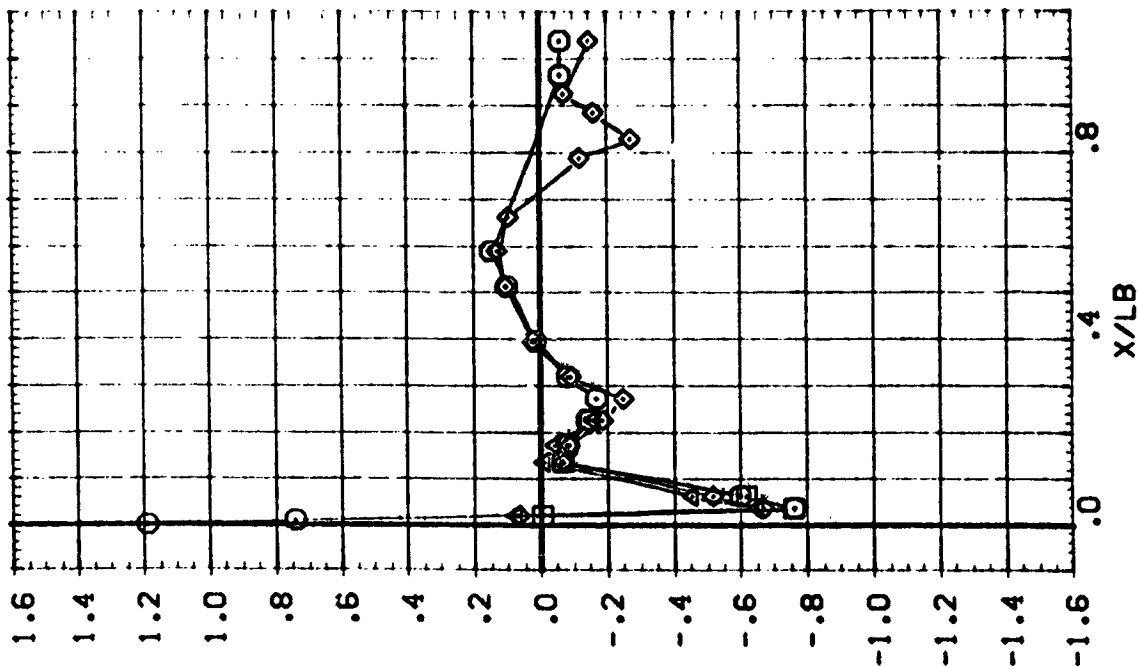


LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AVES 11-707 1A9 02A + S3 + 19 ORBITER FUSELAGE (RBMB444)

PARAMETRIC VALUES
 BETAT .000 ORBITINC -1.200
 RUDDER .000 ELEVON .000
 RUDFLR .000

SYMBOL PHI ALPHAT MACH
 O .000 4.010 .901
 X 20.000 7.990
 D 40.000
 A 55.000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

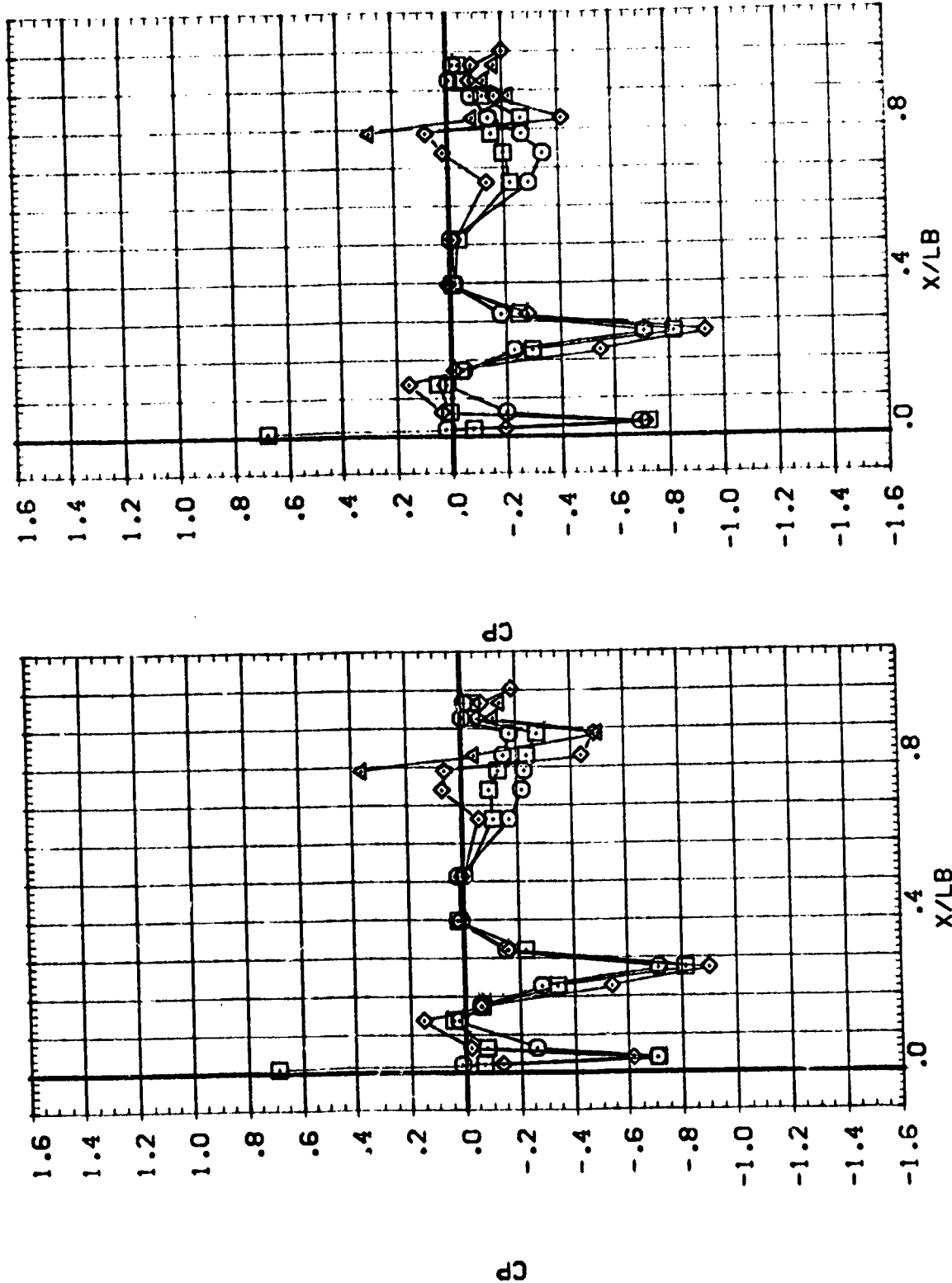


AMES 11-707 1A9 02A + S3 + T9 ORBITER FUSELAGE AGE (R5MB44)

PARAMETRIC VALUES
 BETAT .000 ORBINC -1.200
 RUDDER .000 ELEVON .000
 RUOFLR .000

SYMBOL
 70.000
 90.000
 120.000
 135.000

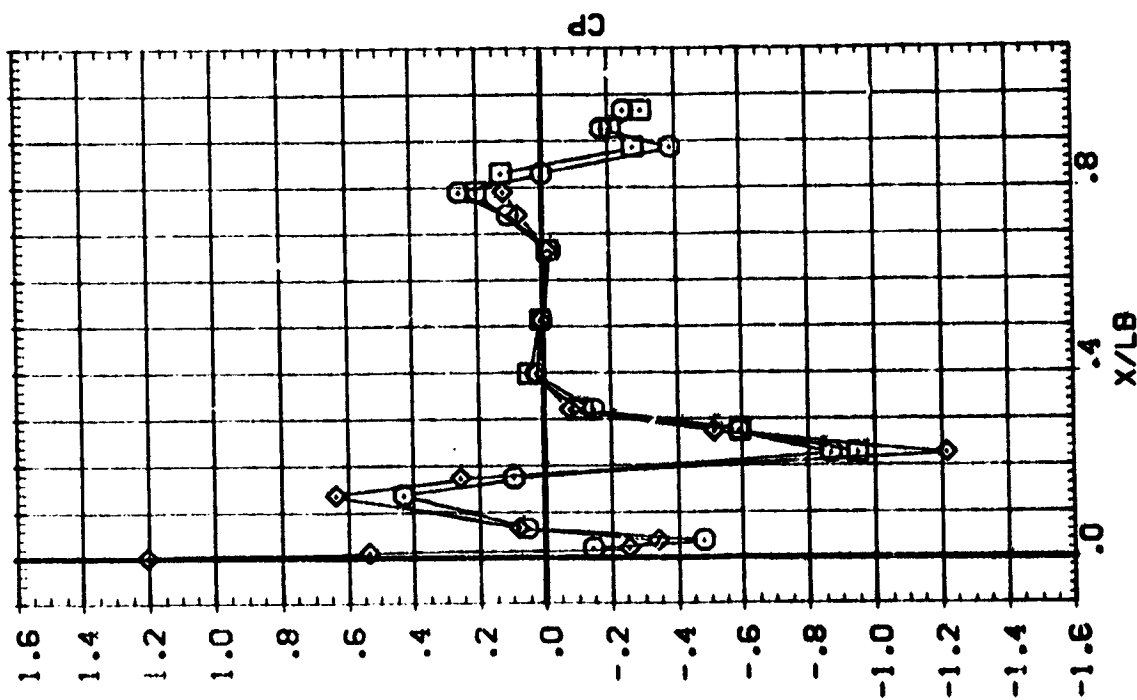
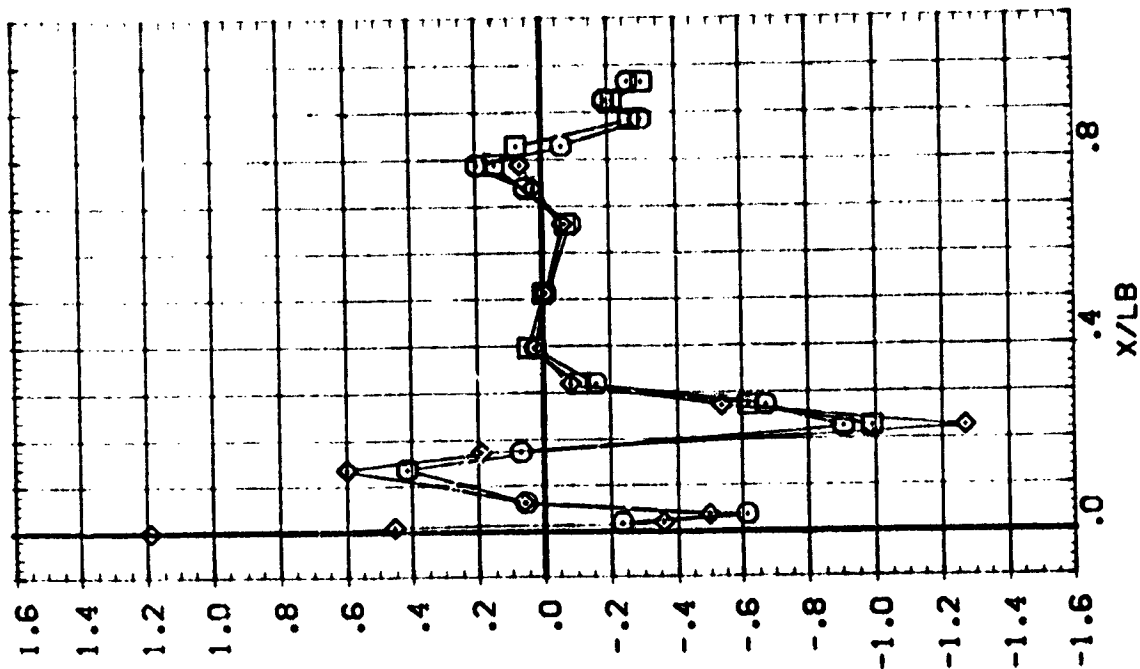
ALPHAT MACH
 4.010 .901
 7.990



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 11-707 1A9 C2A + S3 + T9 ORBITER FUSELAGE (RBYB44)

PH:	ALPHAT	MACH	PARAMETRIC VALUES	
150.000	4.010	.901	BETAT	.000
165.000	7.990		RUDDER	.000
180.000			RJDFLR	.000
				-1.200



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

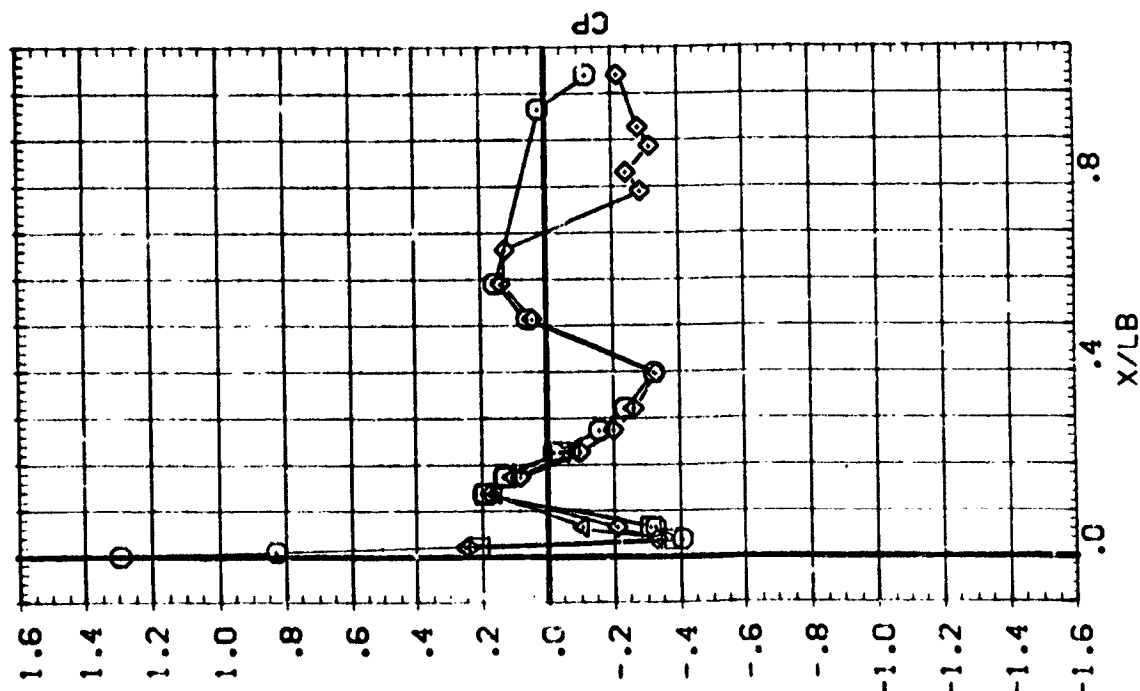
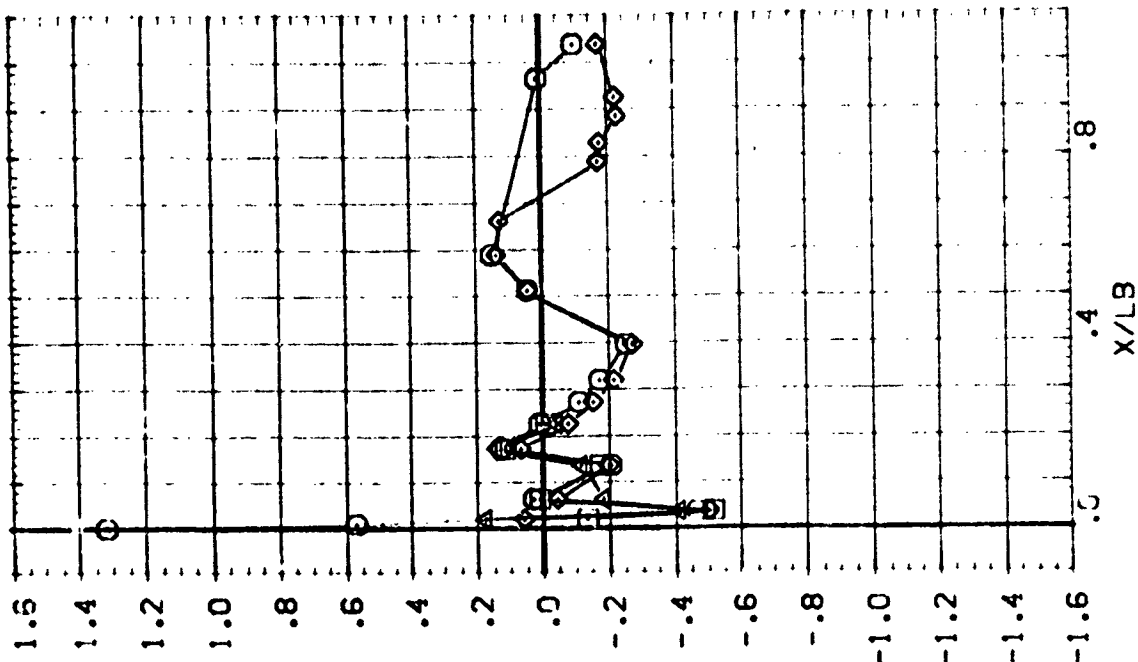


AMES 11-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (RBMB44)

PARAMETRIC VALUES
 BETAT .000 CRBINC -1.200
 RUDDER .000 ELEVON .000
 RUDFLR .000

PHI .000 ALPHAT MACH 1.100
 20.000
 40.000
 55.000

SYMBOL
 ○ □ ◇ △



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 11-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (RBMB44)

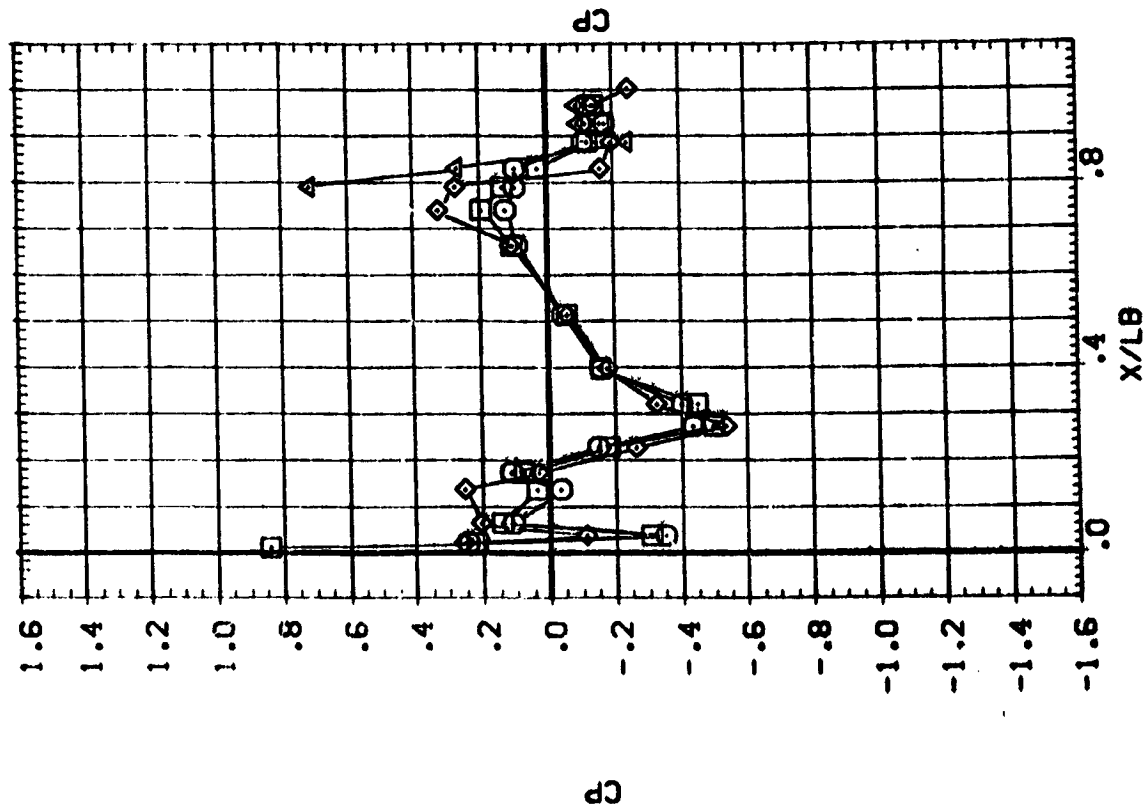
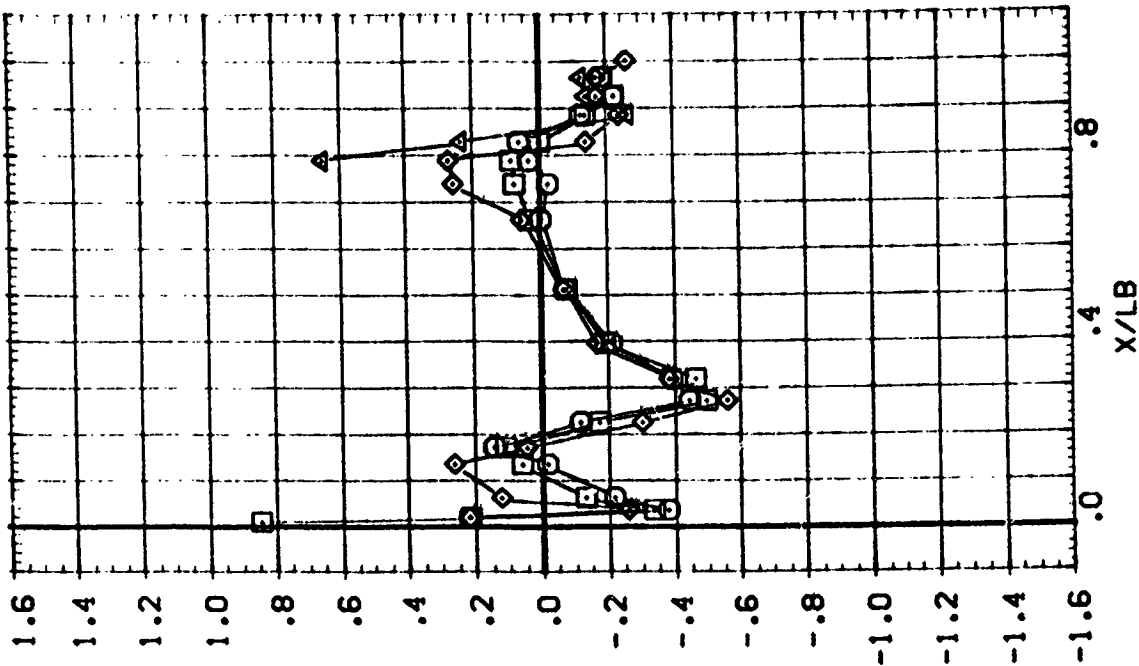
SYMBOL
 ○
 □
 ◇
 △

PHI
 70.000
 90.000
 120.000
 135.000

ALPHA
 -3.970
 .030

MACH
 1.100

PARAMETRIC VALUES
 BETAT
 R000R
 R000L
 ORBITC
 ELEVON
 -1.200
 .000
 .000

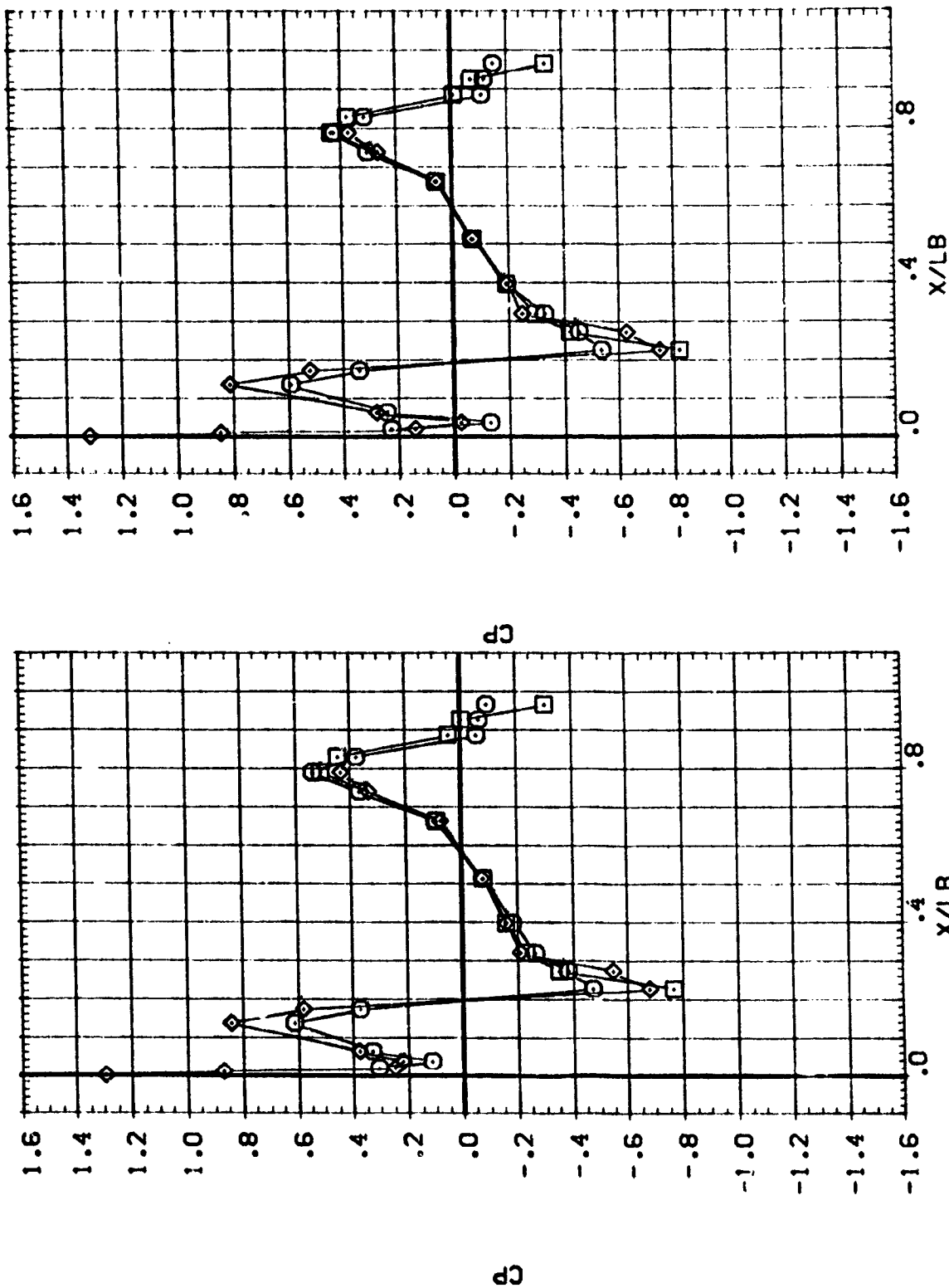


LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES



AMES 11-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (RBMB44)

SYMBOL	PHI	ALPHA	MACH	BETAT	RJODER	RJOFIR	PARAMETRIC VALUES
○	150.000	-3.970	1.100	.000	.000	.000	ORBIT INC
□	165.000	.030		.000	.000		ELEVON
◇	180.000						



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

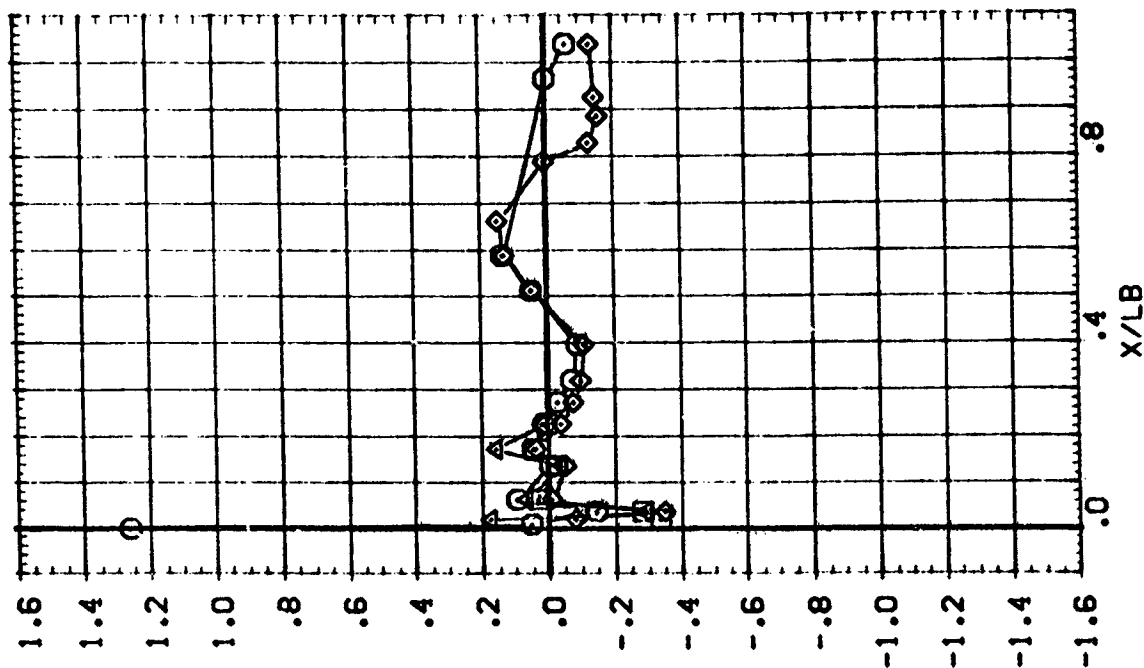
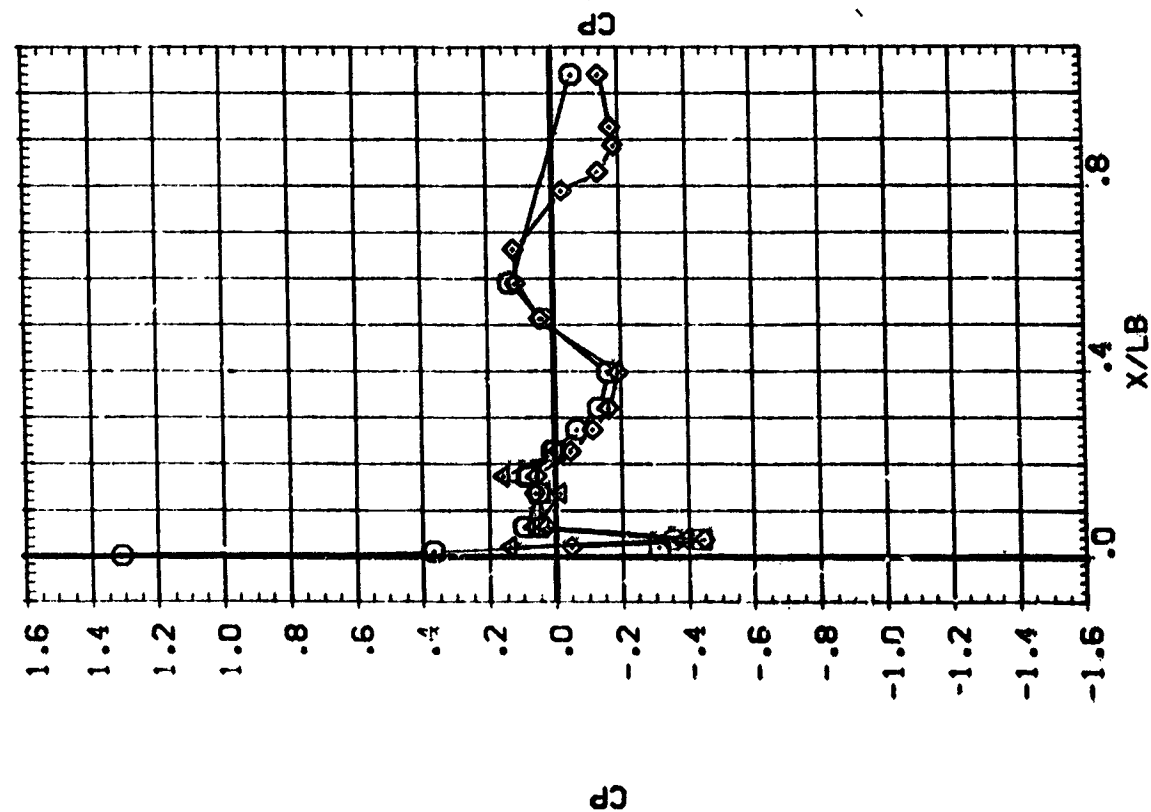
AMES 11-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (RBMB44)

SYMBOL
 ○ □ ◇ △

PHI
 .000
 20.000
 40.000
 55.000

ALPHA T MACH
 3.980 1.102
 8.010

PARAMETRIC VALUES
 BETAT .000 ORBITINC -1.200
 RUDDER .000 ELEVON .000
 RUFLR .000



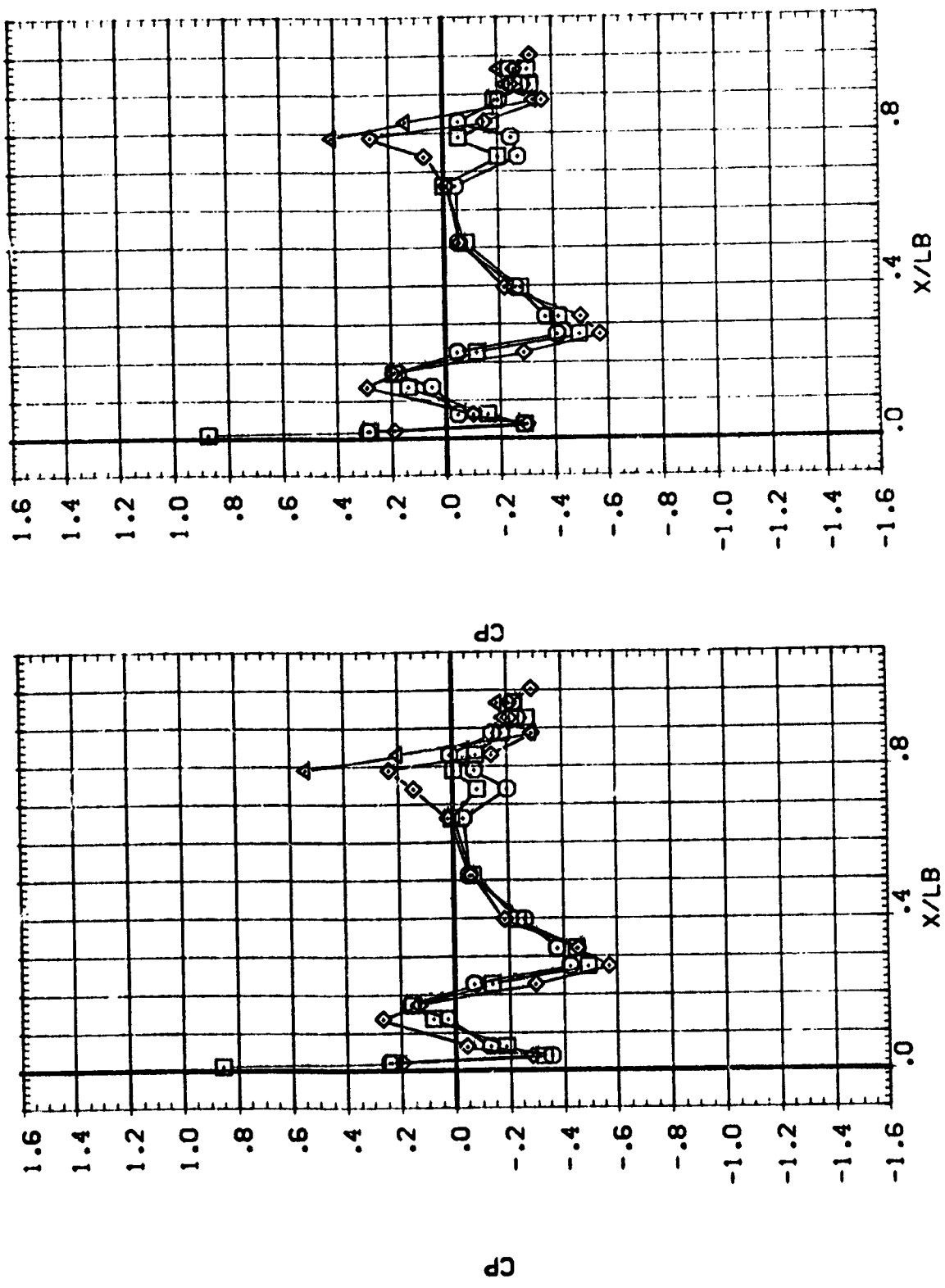
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES



AMES 11-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (RBMB44)

SYMBOL	PHI	ALPHA	MACH	BETAT	ORBITAL	PARAMETRIC VALUES
□	70.000	3.980	1.102	RUDER	.000	ELEVON
◇	90.000	8.010		RUDFLR	.000	
△	120.000					
	135.000					

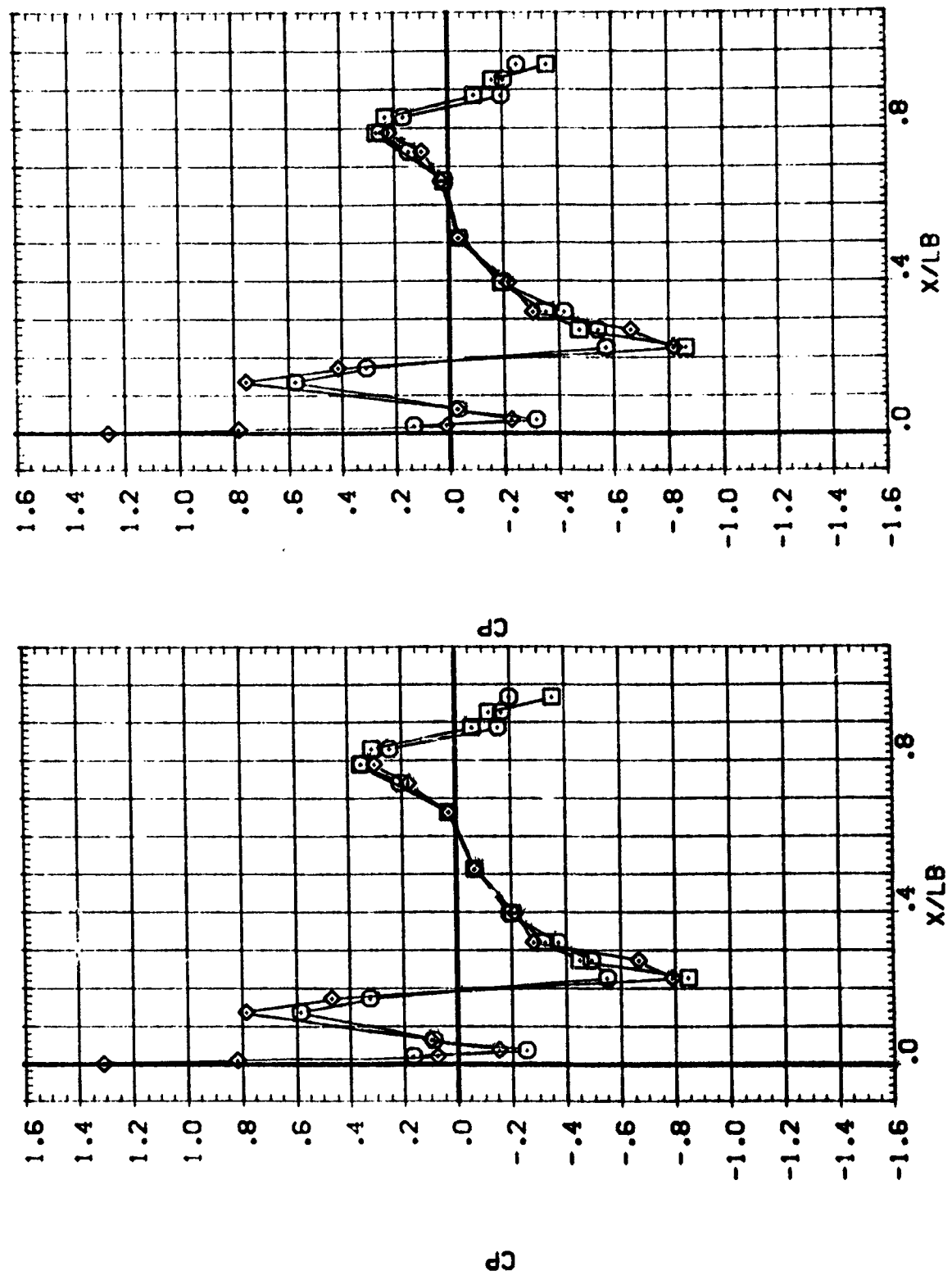
-1.200
.000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 11-707 1A9 02A - S3 + T9 ORBITER FUSELAGE (RBMB44)

SYMBOL	PHI	ALPHA	MACH	PARAMETRIC VALUES		
	150.000	3.960	1.102	BETAT	.000	ORBITING
	165.000	8.010		RUDDER	.000	ELEVON
	180.000			RUDFLR	.000	



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES



AMES 11-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (RBMB44)

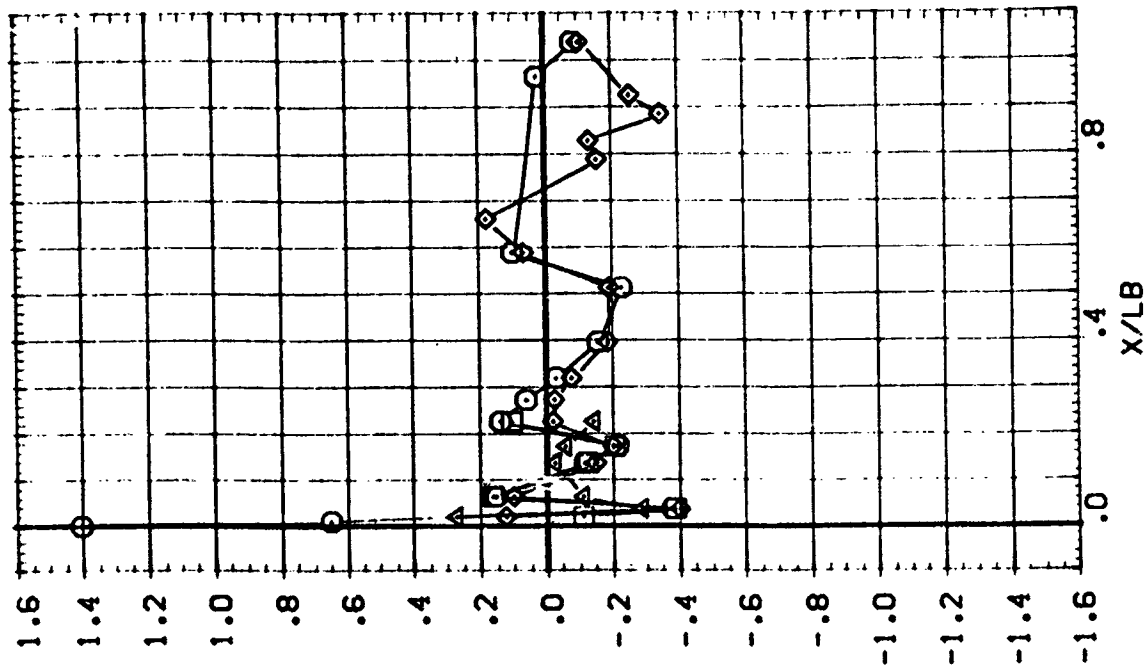
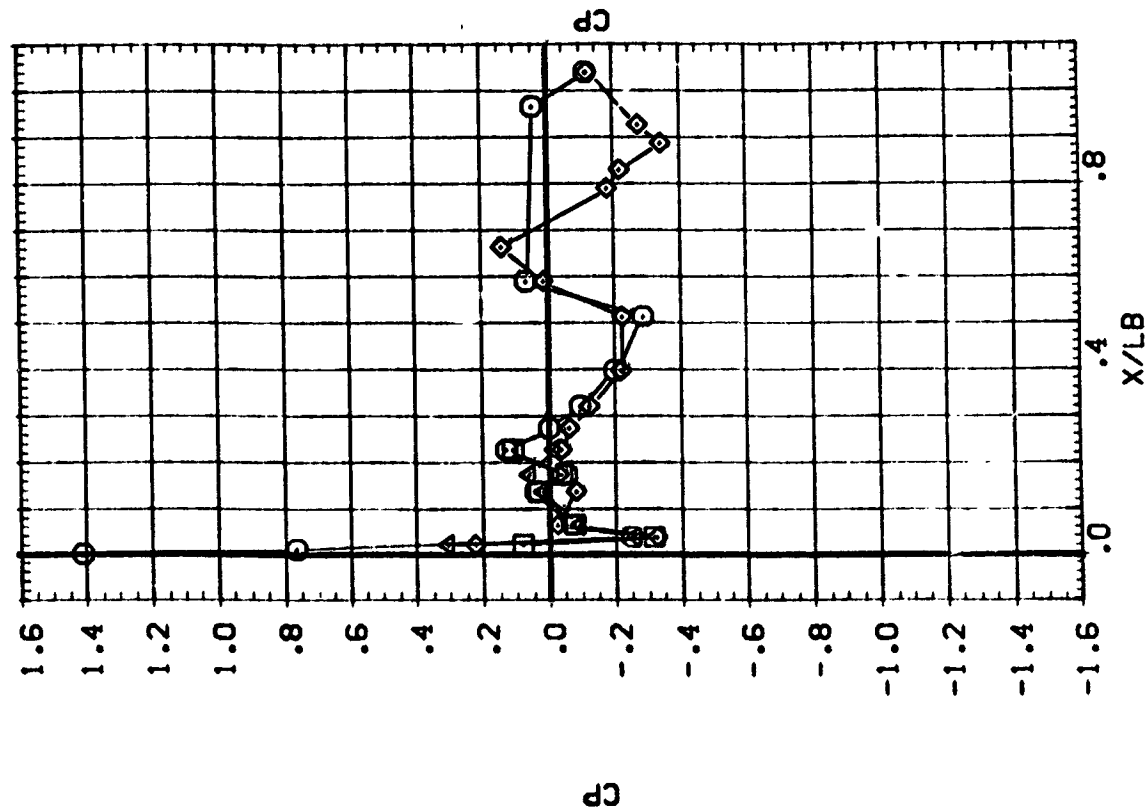
SYMBOL
□
◇
△

PHI
.000
20.000
40.000
55.000

ALPHAT
-3.960
.020

MACH
1.247

PARAMETRIC VALUES
BETAT .000 ORBINC -1.200
R_JDDE .000 ELEVON .000
R_JDFLR .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 11-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (RBM44)

SYMBOL
 ○ □ ◇ △

PHI
 70.000
 90.000
 120.000
 135.000

ALPHA
 -3.960
 .020

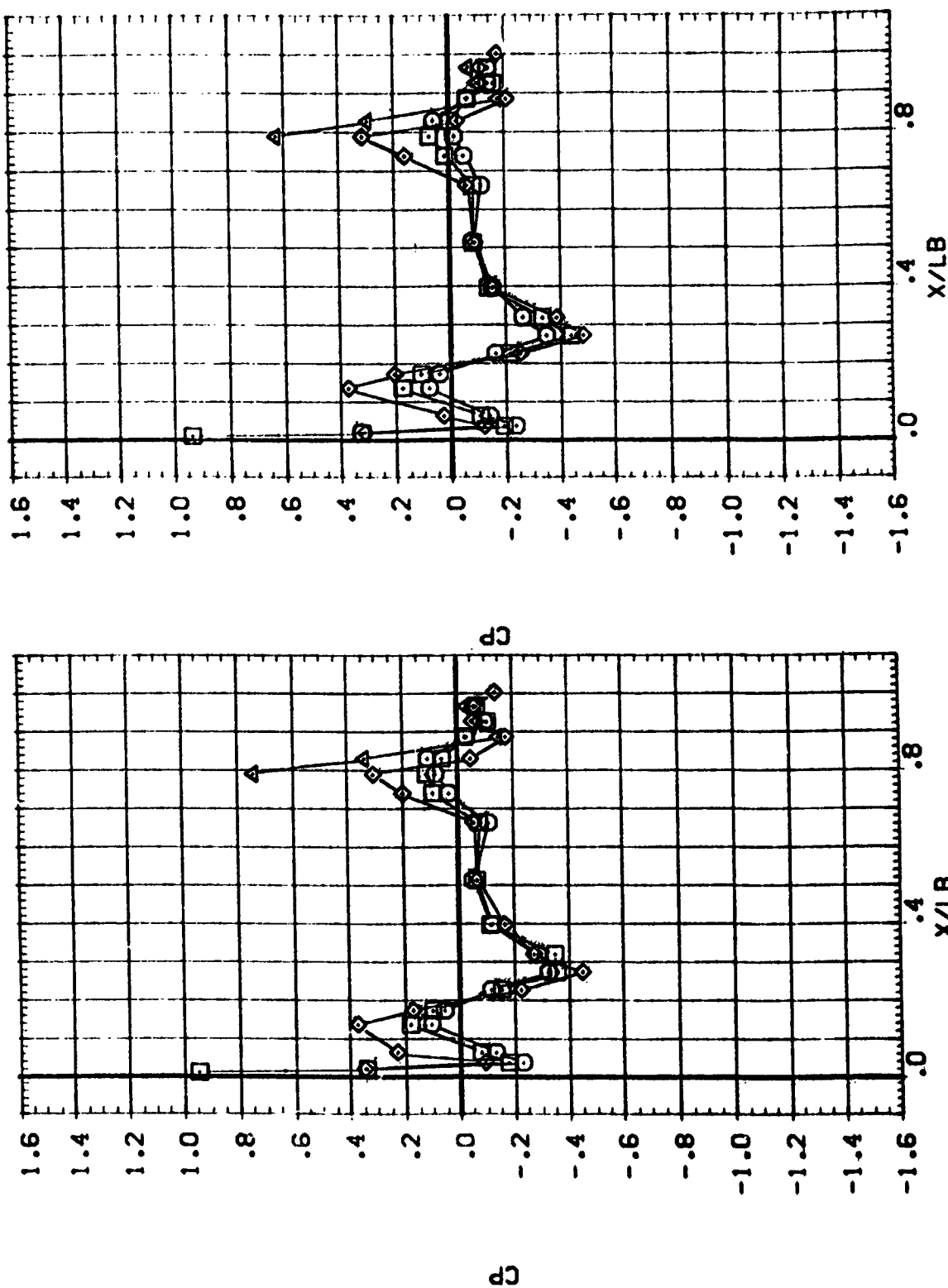
MACH
 1.247

PARAMETRIC VALUES
 BETA
 RLODR
 RLOFLR

.000
 .000
 .000

ORBITING
 ELEVON

-1.200
 .000

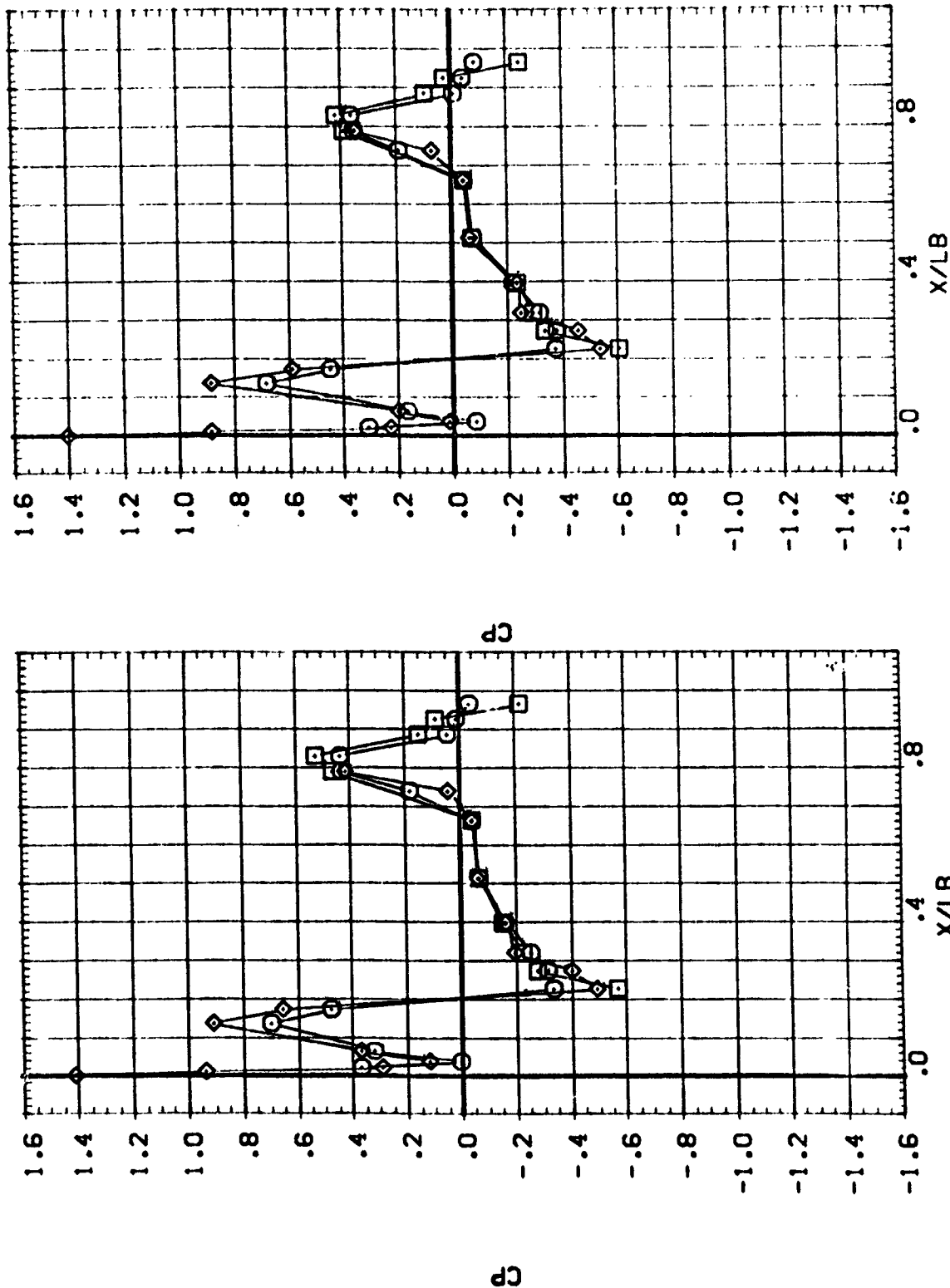


LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES



AMES 11-707 1A9 C2A + S3 + T9 ORBITER FUSELAGE (RBMB444)

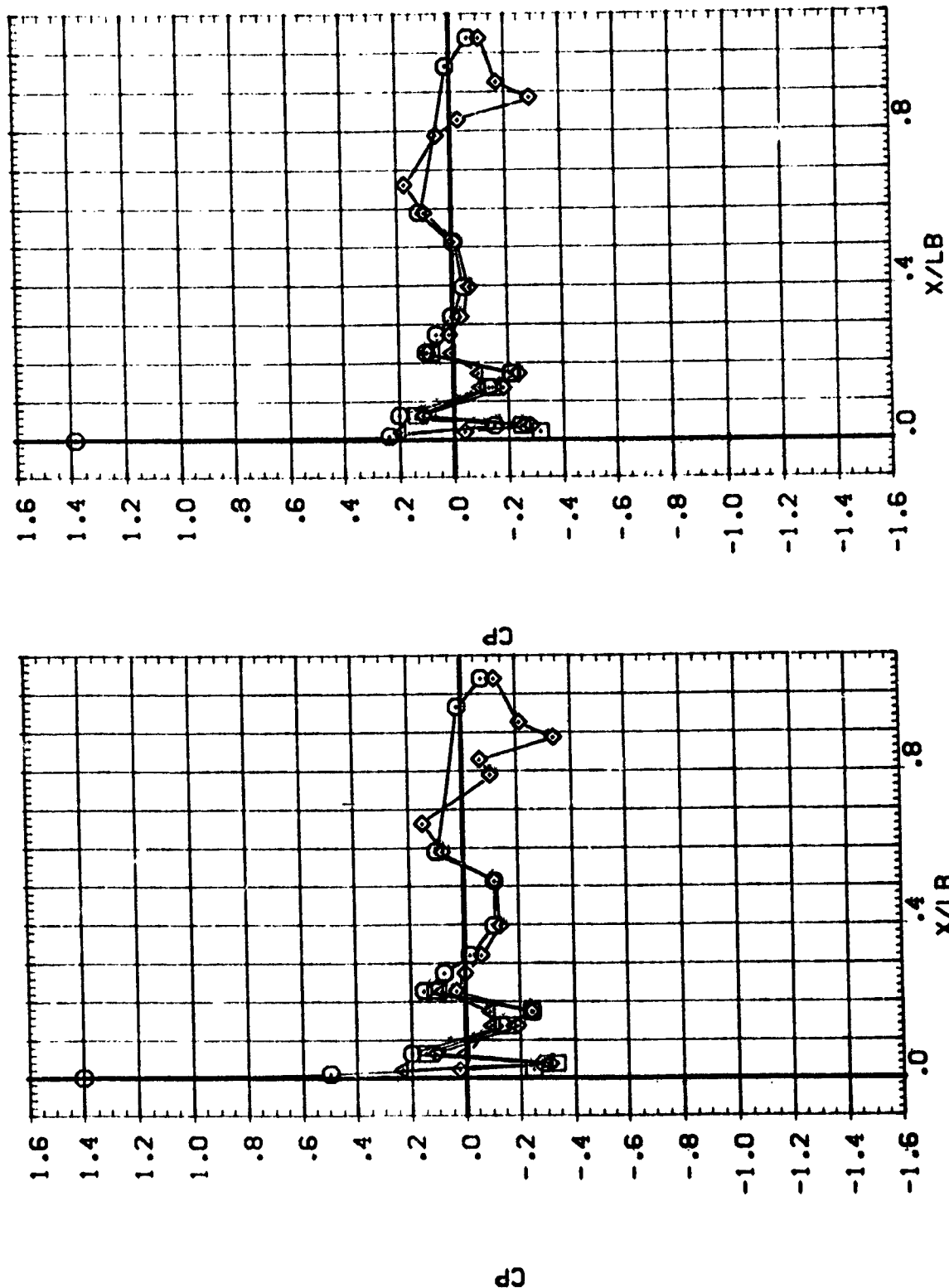
SYMBOL	PHI	ALPHA	MACH	PARAMETRIC VALUES			
				BETA	ORBIT	ELEV	
○	150.000	-3.960	1.247	.000	.000	.000	-1.200
□	165.000	.020		.000	.000	.000	.000
◇	180.000			R_DFLR			



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 11-707 1A9 02A + S3 + 19 ORBITER FUSELAGE (RBMB44)

SYMBOL	PHI	ALPHAT	MACH	PARAMETRIC VALUES		
	.000	4.020	1.248	BETAT	.000	ORBINC
	20.000	8.010		RUDDER	.000	ELEVON
	40.000			RUDLER	.000	
	55.000					



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES



AMES 11-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (RBMB44)

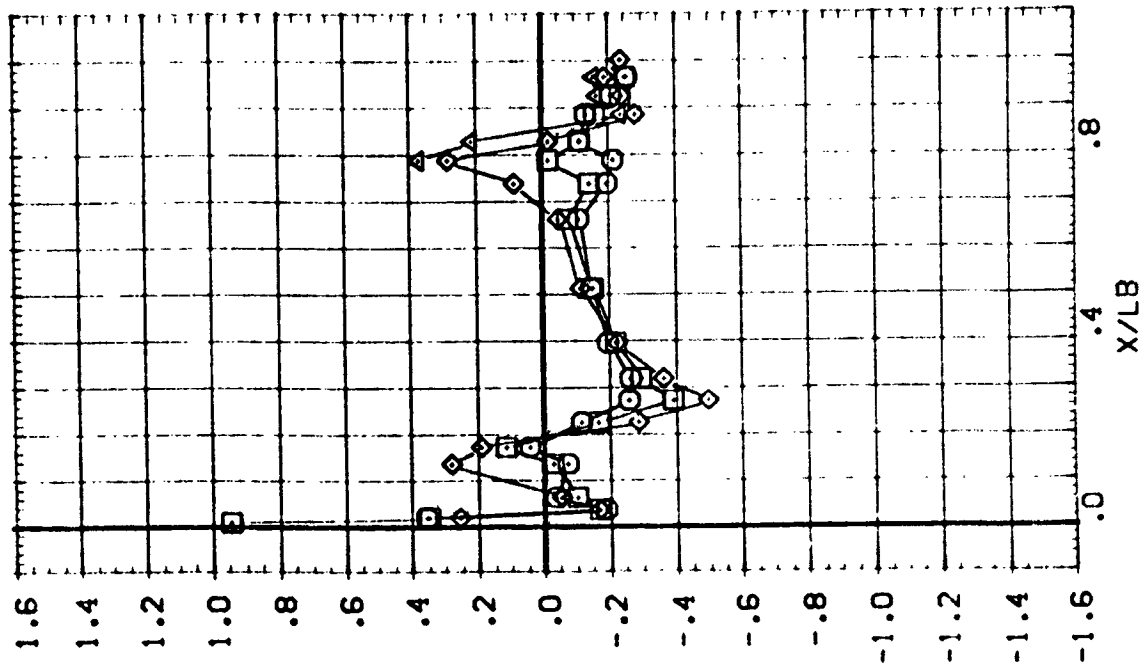
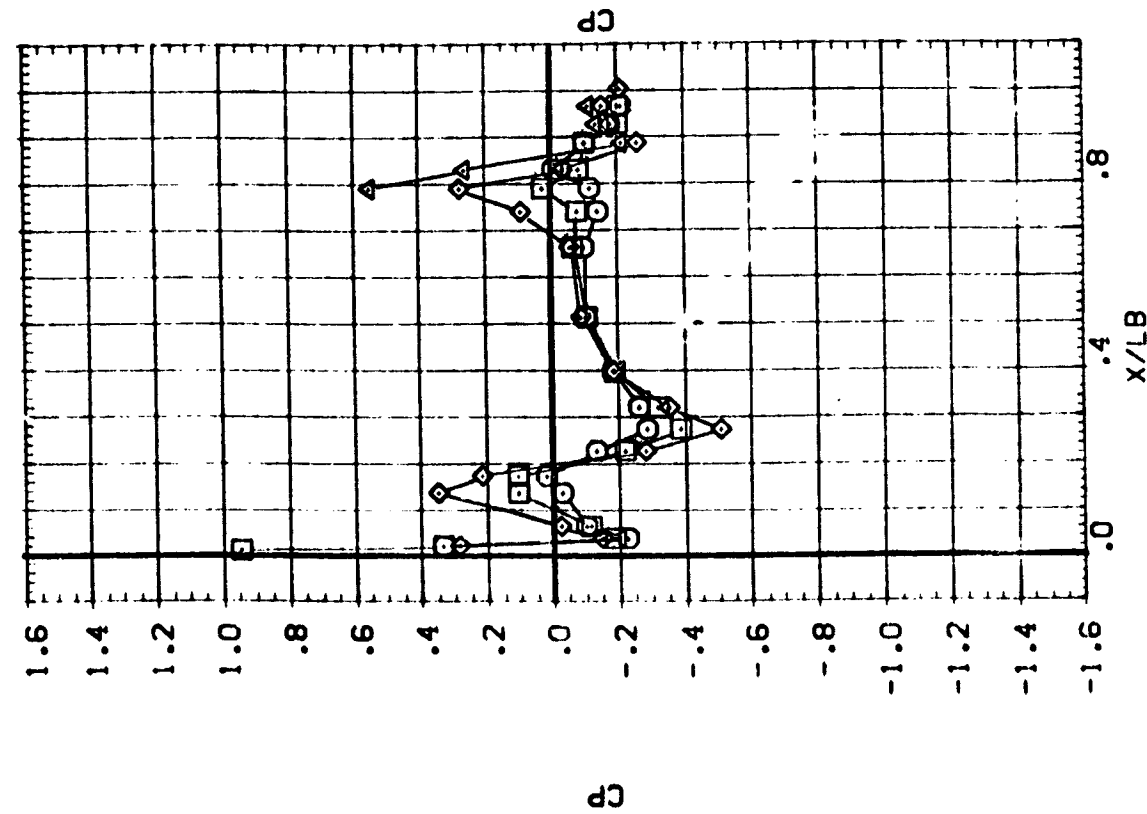
SYMBOL
□
◇
△

PMI
70.000
90.000
120.000
135.000

ALPHA
4.020
8.010

MACH
1.246

PARAMETRIC VALUES
BETAT .000 ORBINC .000
RJOER .000 ELEVON .000
RUSLR .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 11-707 1A9 02A + S3 + 19 ORBITER FUSELAGE (RBM344)

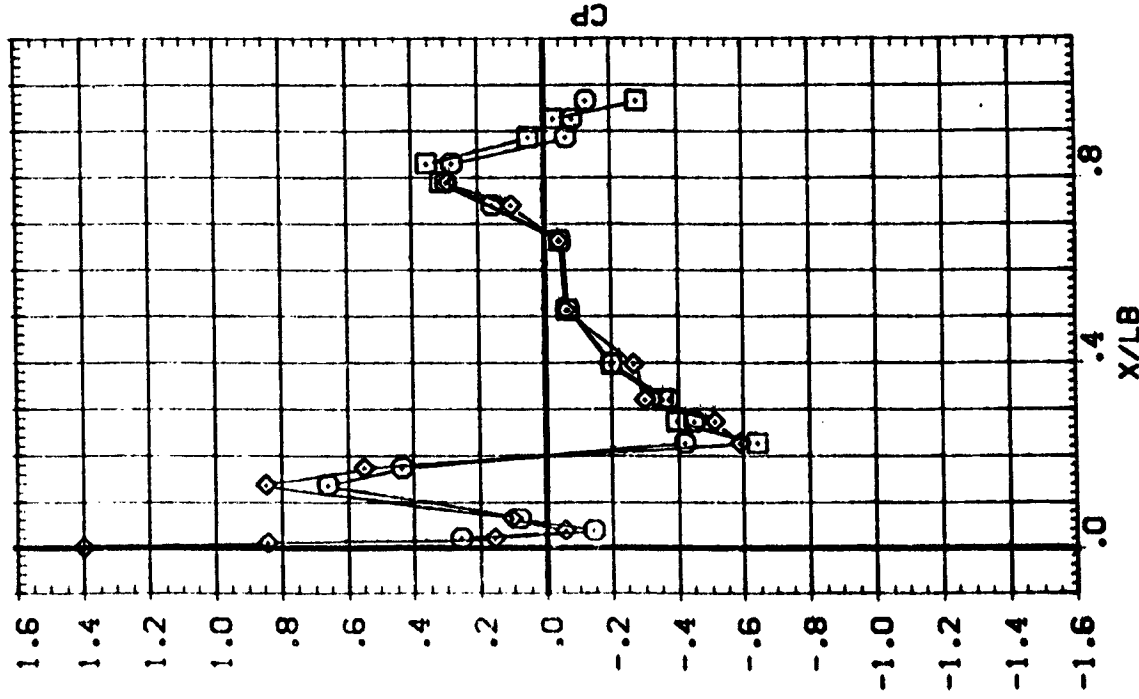
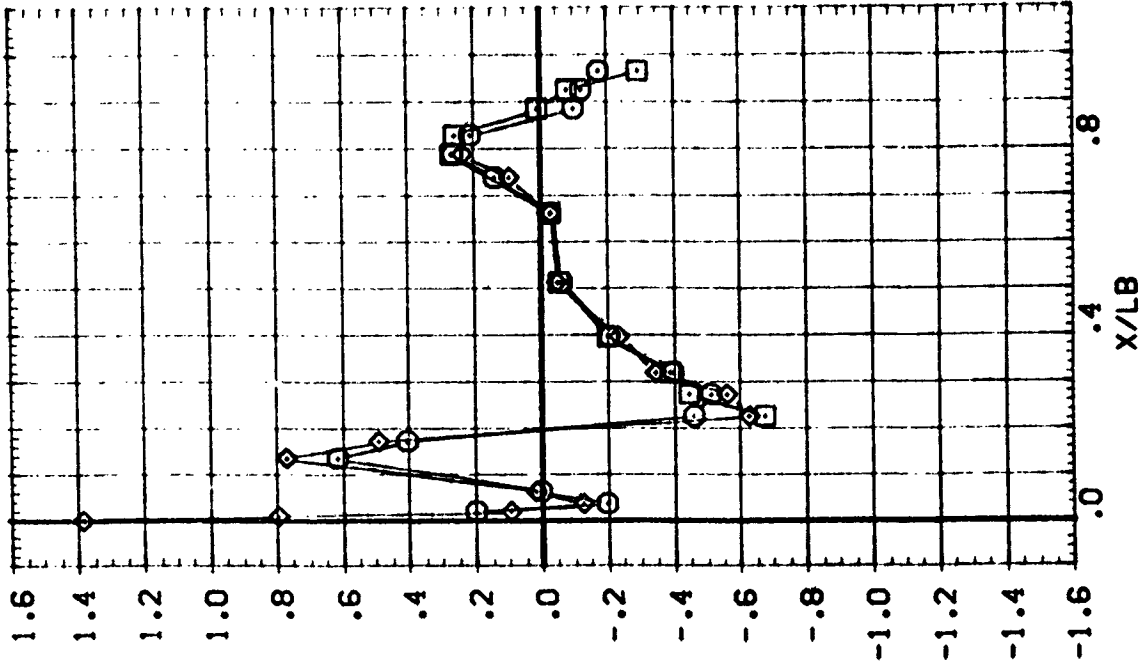
SYMBOL
 ○
 ◇

PHI
 150.000
 165.000
 180.000

ALPHA
 4.020
 8.010

MACH
 1.248

PARAMETRIC VALUES
 BETAT .000
 RUDDER .000
 RUDDLR .000
 CRBINC -1.200
 ELEVON .000



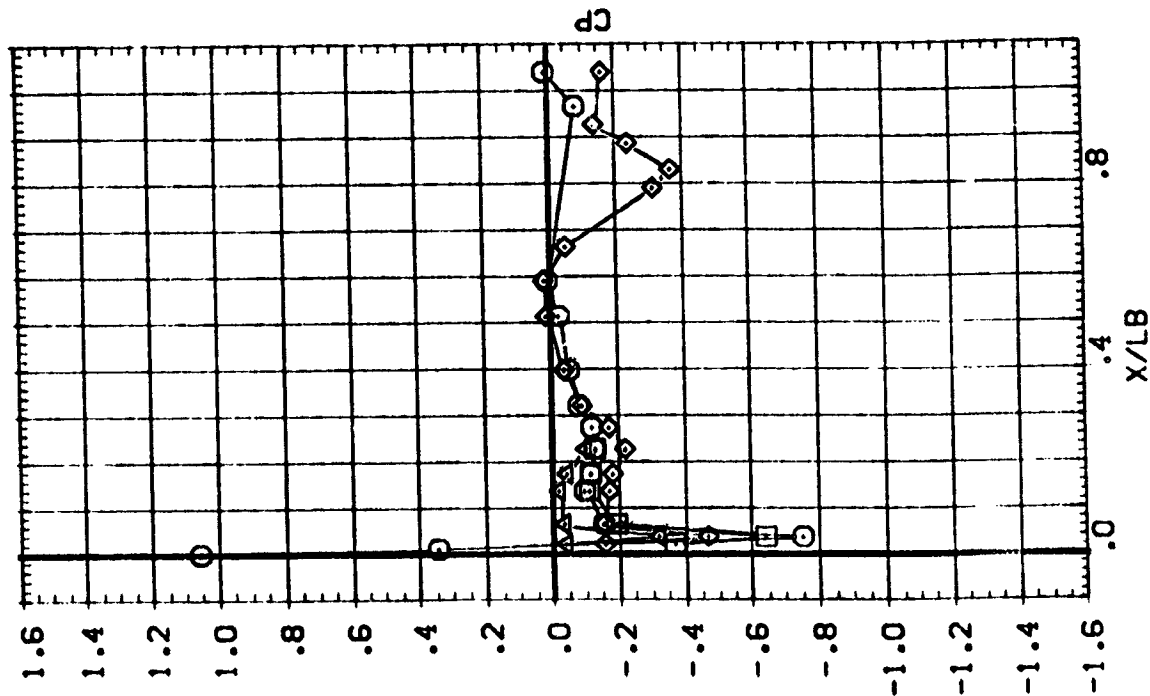
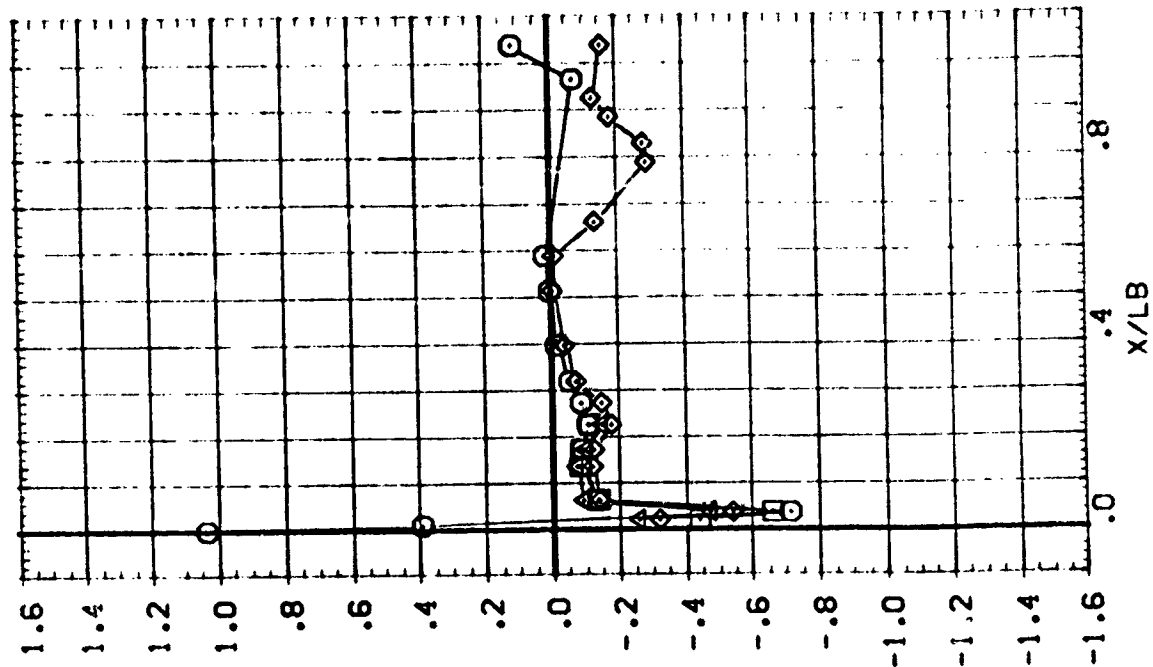
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES



AMES :1-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (RBMB03)

PARAMETRIC VALUES
 ALPHAT -8.000 ORBITINC .500
 RUDDER .000 ELEVON .000
 RUJFLR .000

SYMBOL P₀₁ BETAT MACH
 ○ .000 -4.020 .596
 □ 20.000 .020
 ◇ 40.000
 △ 55.000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AVES 11-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (RBMB03)

SYMBOL
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 I
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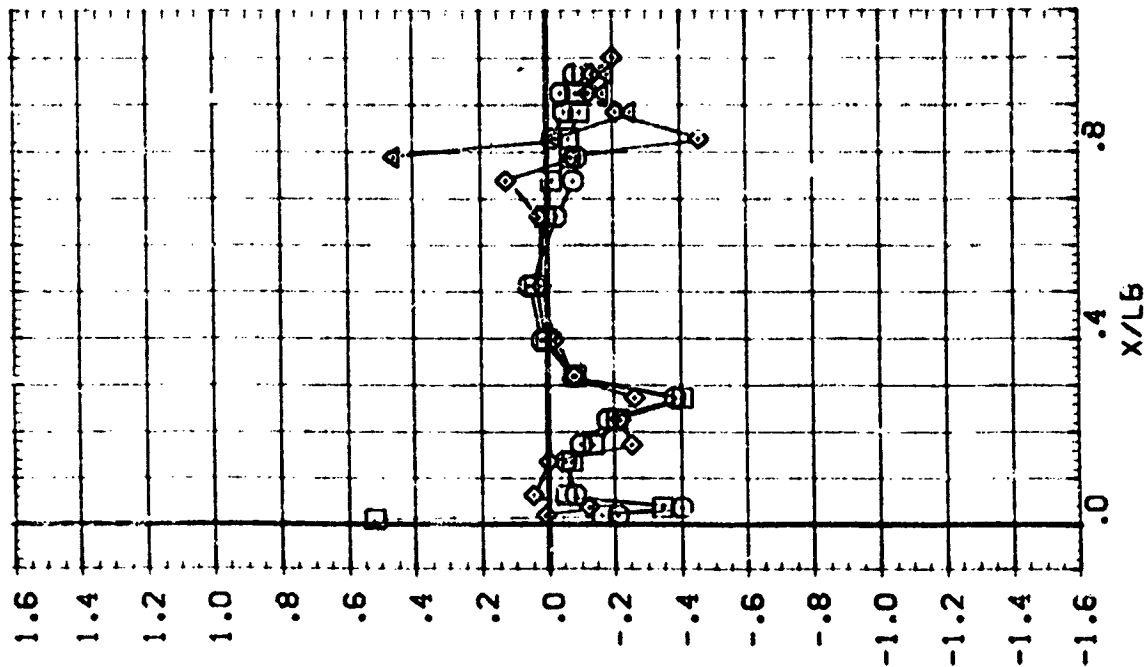
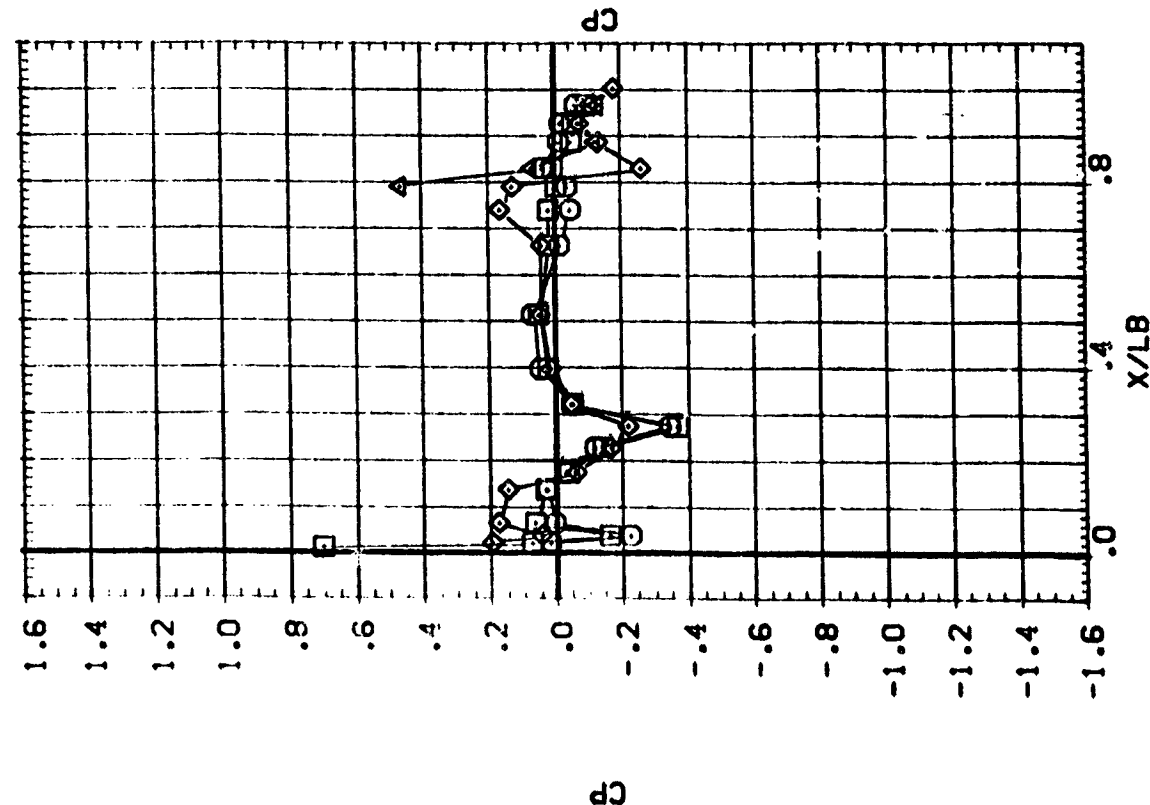
PHI
 70.000
 90.000
 120.000
 135.000

BETA
 -4.020
 .020

MACH
 .596

PARAMETRIC VALUES
 ALPHA: -8.000
 RUDER .000
 RUDEL .000

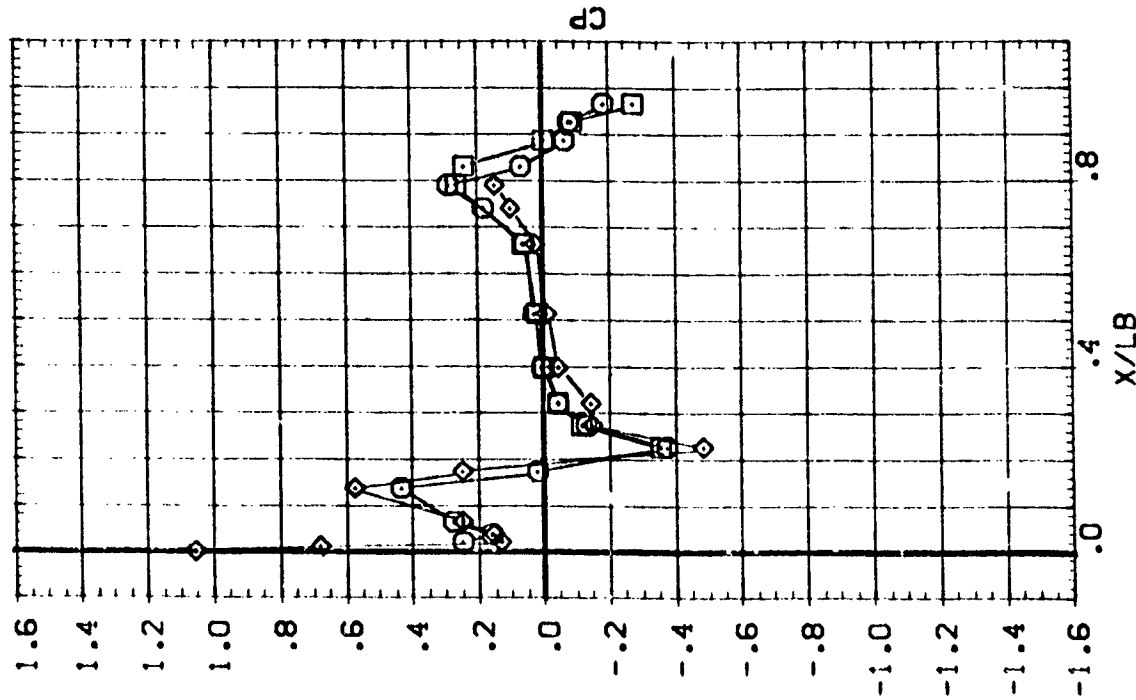
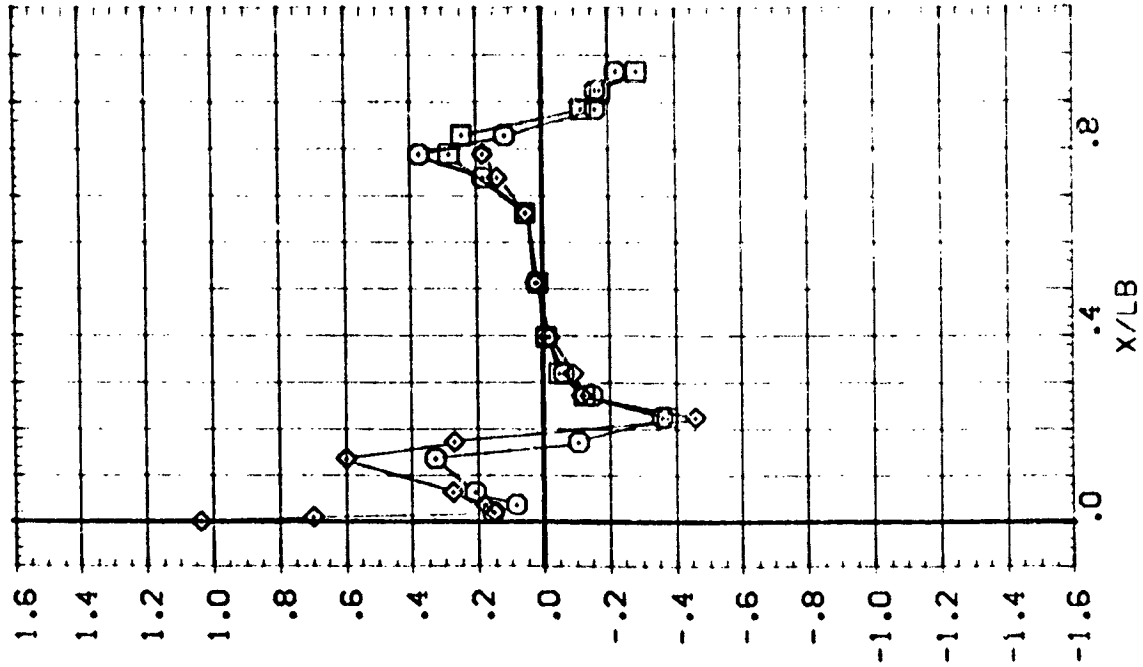
.500
 .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AVES 11-707 1A9 C2A + S3 + T9 ORBITER FUSELAGE (RBMB03)

SYMB:	PHI:	BETAT	WACH	PARAMETRIC VALUES
○	150.000	-4.020	.596	ALPHAT
◇	165.000	.020		RODER
	180.000			RUELR
				ORBITC
				ELEVON
				.500
				.000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES



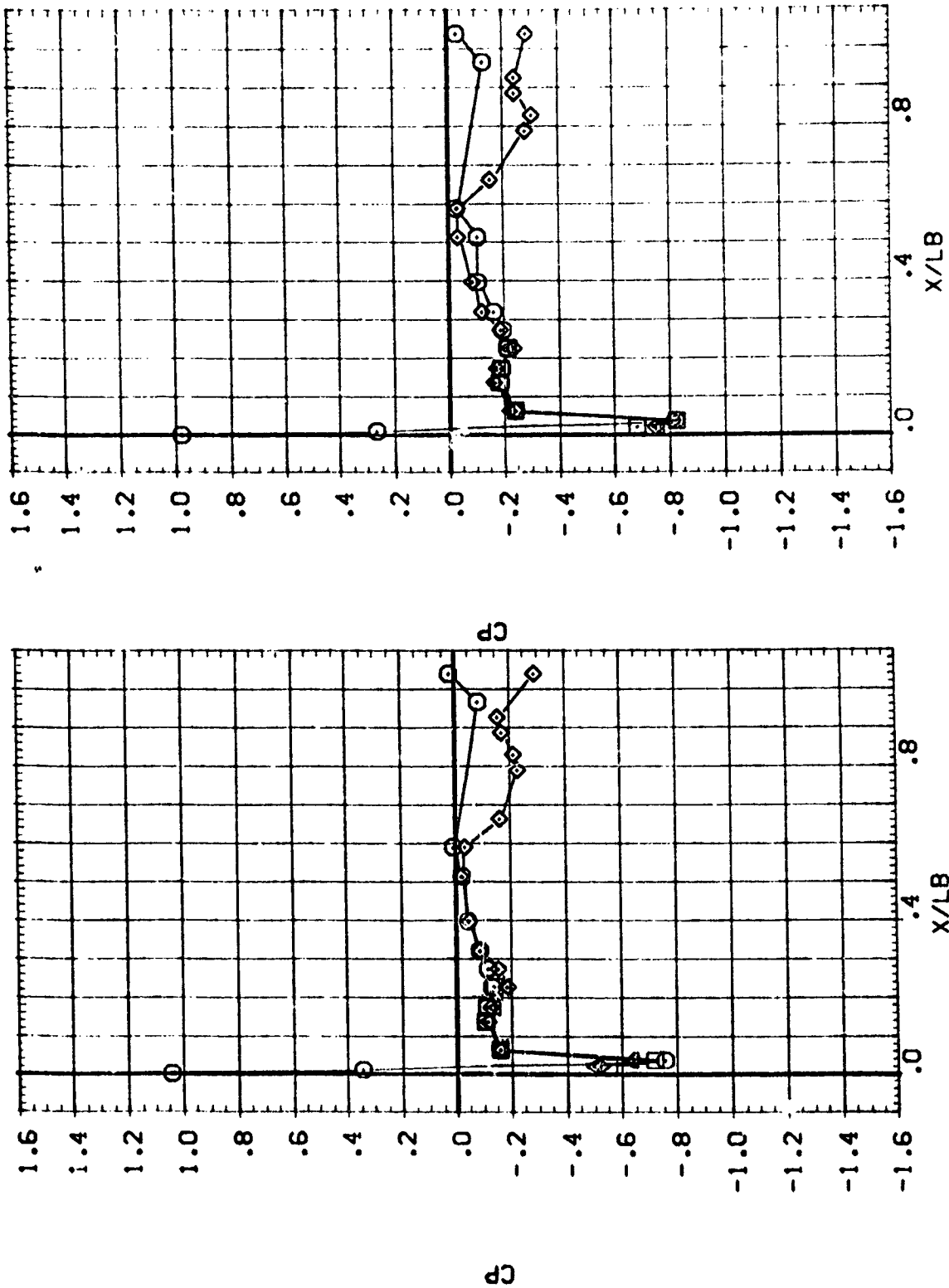
AMES 11-707 :A9 02A + S3 + T9 ORBITER FUSELAGE (RBM003)

SYMBOL
□
◇
△

PHI
- .000
20.000
40.000
55.000

BETAT MACH
4.100 .598
8.180

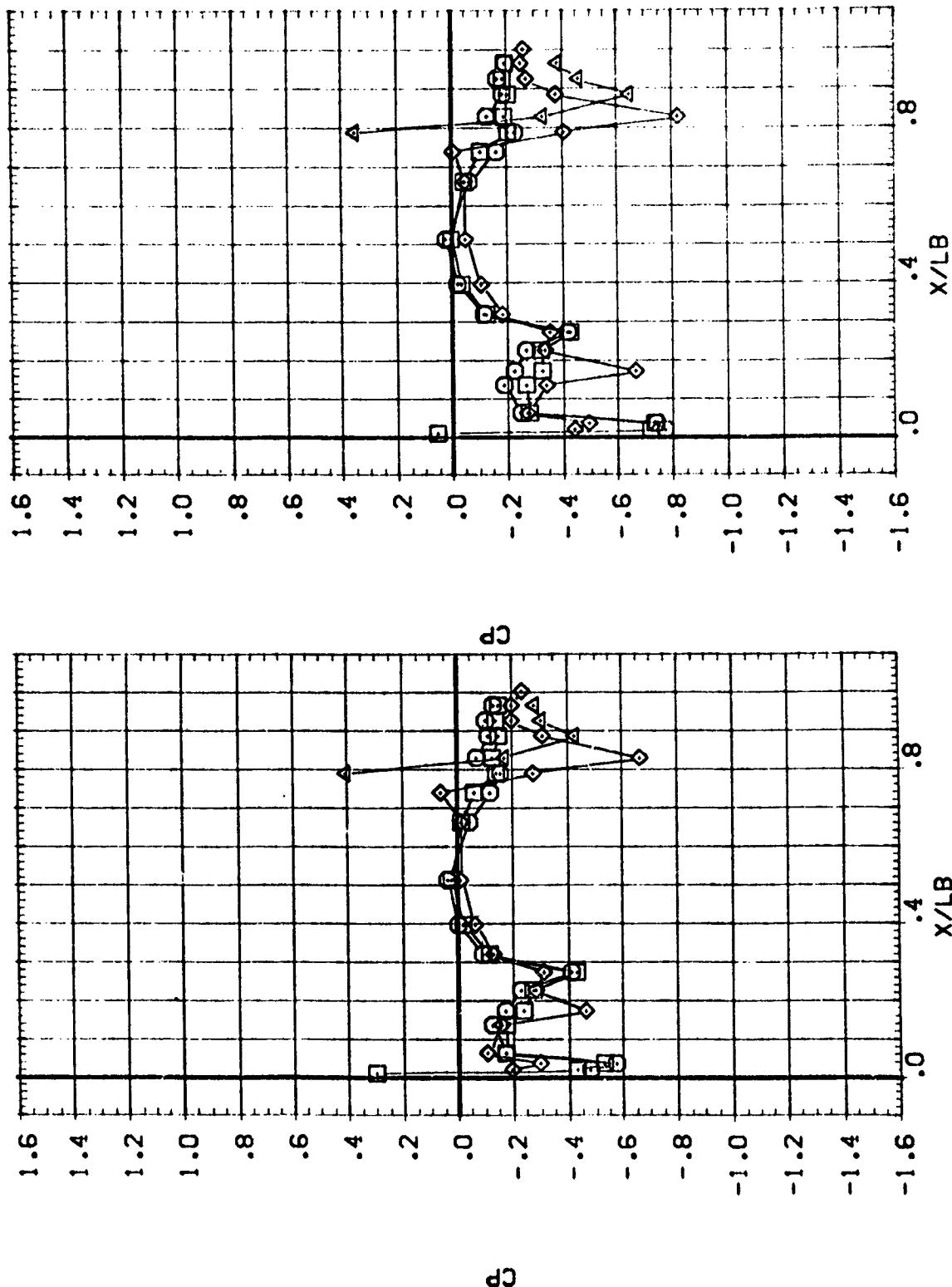
PARAMETRIC VALUES
ALPHAT -8.000 ORBINC .500
RJOOR .000 ELEVON .000
RJOFLR .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 11-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (RBMB03)

SYMBOL	PARAMETRIC VALUES
□	ALPHA
○	RJDER
◇	DRBINC
△	ELEVON
	DRBINC
	ELEVON
	DRBINC
	ELEVON



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES



AMES 11-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (RBM003)

SYMBOL
○
◇

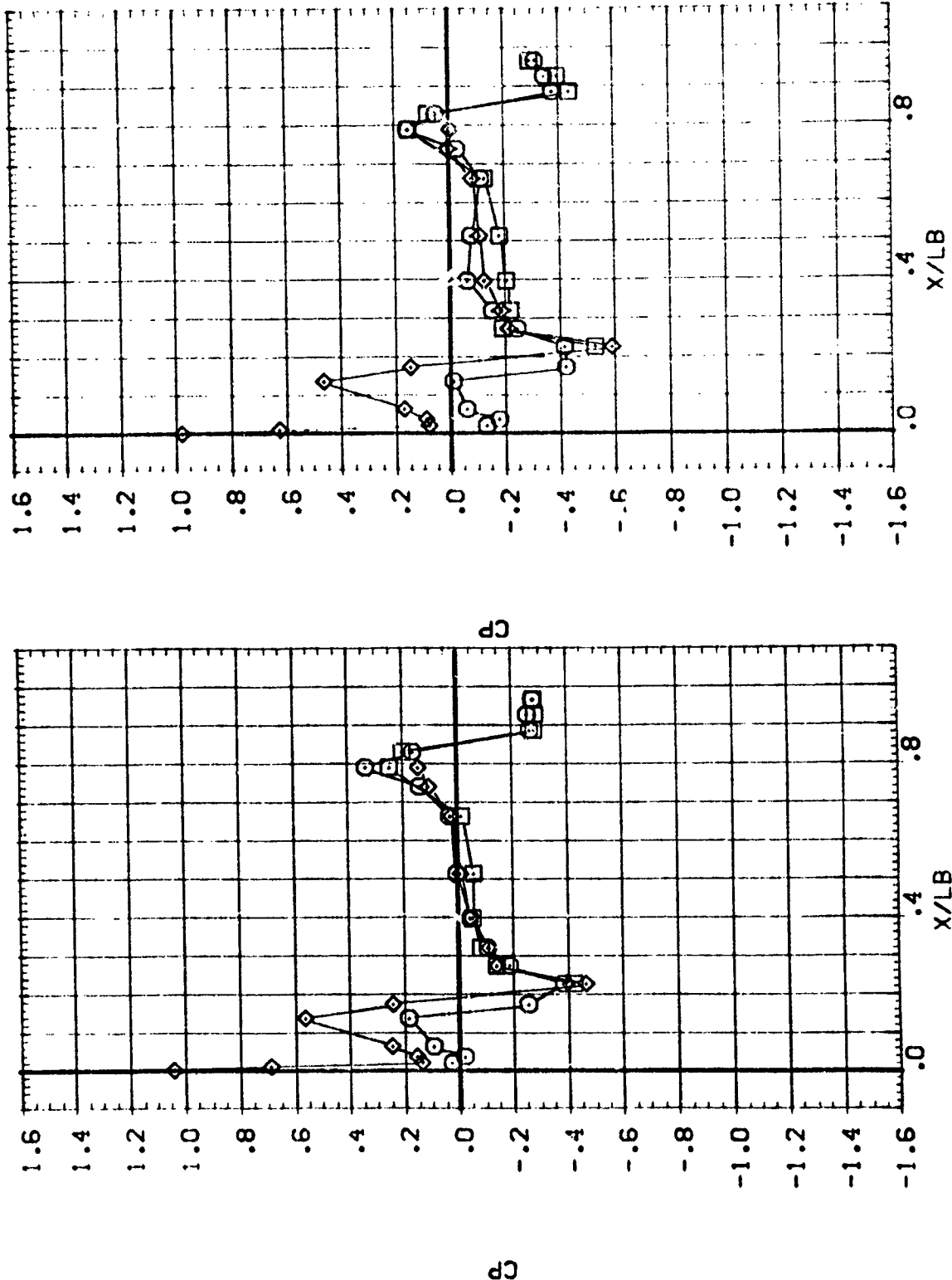
PH: 150.000
165.000
180.000

BETAT 4.100
8.180

MACH .598

PARAMETRIC VALUES
ALPHAT -8.000
RUDDER .000
RUOFLR .000

.500
.000

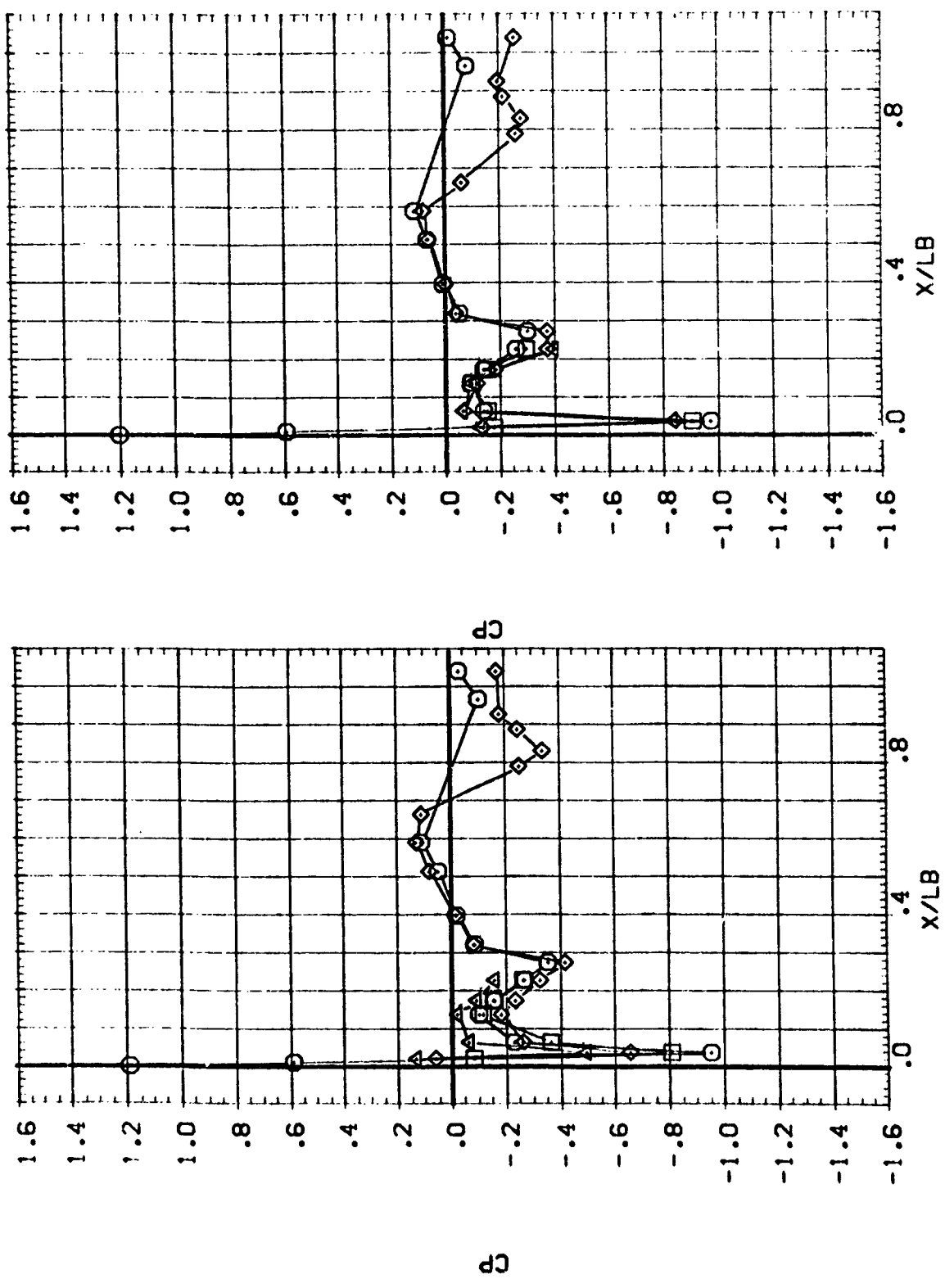


LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES



AVES 11-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (RBMB03)

SYMBOL	PHI	BETAT	MACH	PARAMETRIC VALUES
○	.000	-4.030	.900	ALPHAT
□	20.000	2.080		RJODER
◇	40.000			RJOFIR
△	55.000			
				ORBNIC
				ELEVON
				.500
				.000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES



AMES 1:-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (RBMB03)

SYMBOL

PHI

BETAT

MACH

70.000
-4.050
2.380
.900

○

□

◇

△

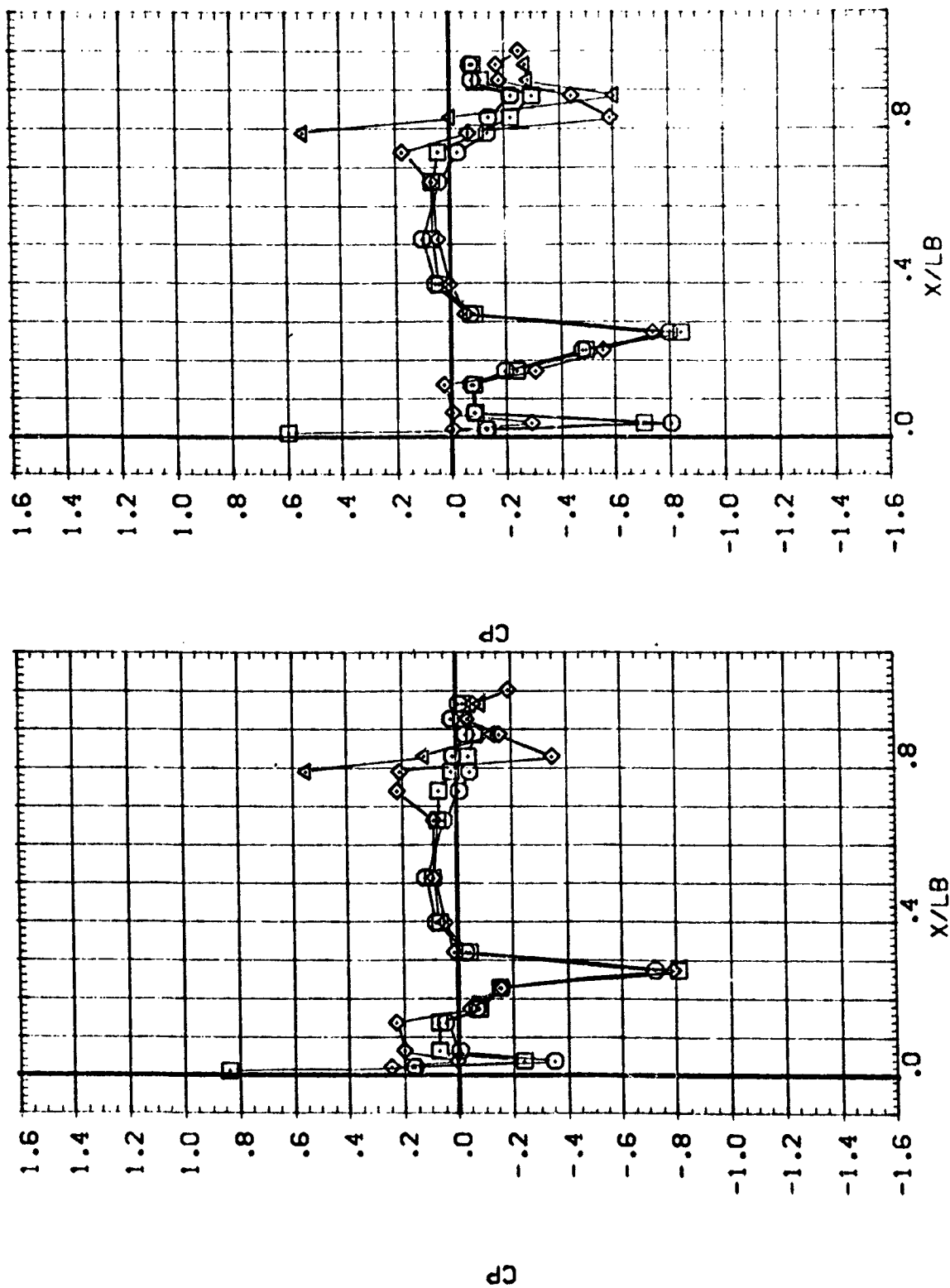
120.000
135.000

PARAMETRIC VALUES

ALPHAT
RUDER
RUDFLR

-8.000
.000
.000

ORBITING
ELEVON
.000
.000

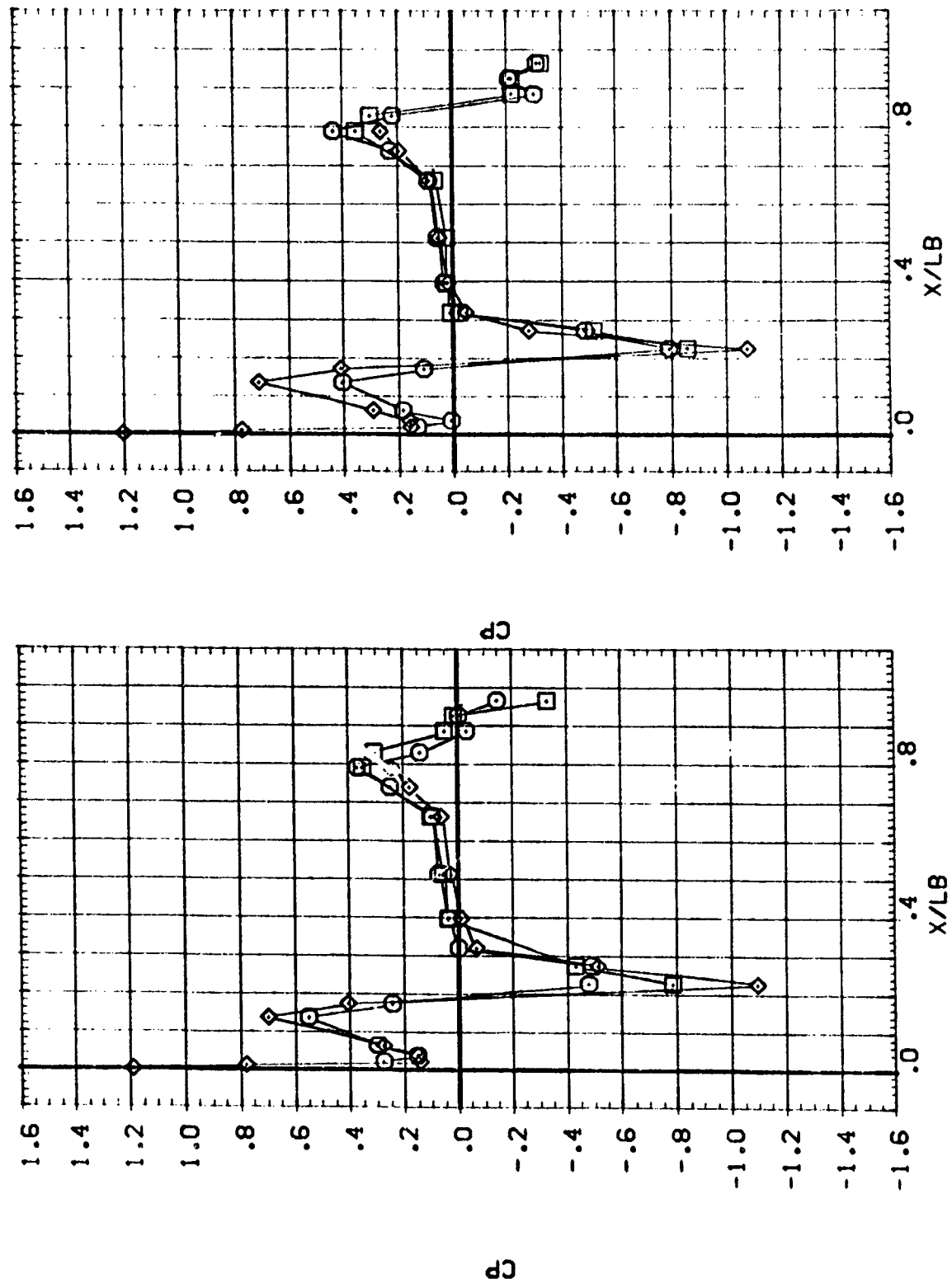


LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES



AVES 1.-707 1A9 C2A + S3 + T9 ORBITER FUSELAGE (RBM303)

SYMBOL	PARAMETRIC VALUES
○	ALPHAT
□	RUDDER
◇	RUDFLR
	-8.000
	ORBITING
	.000
	ELEVON
	.000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES



AMES 11-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (RBMB03)

SYMBOL
○ □ ◇ △

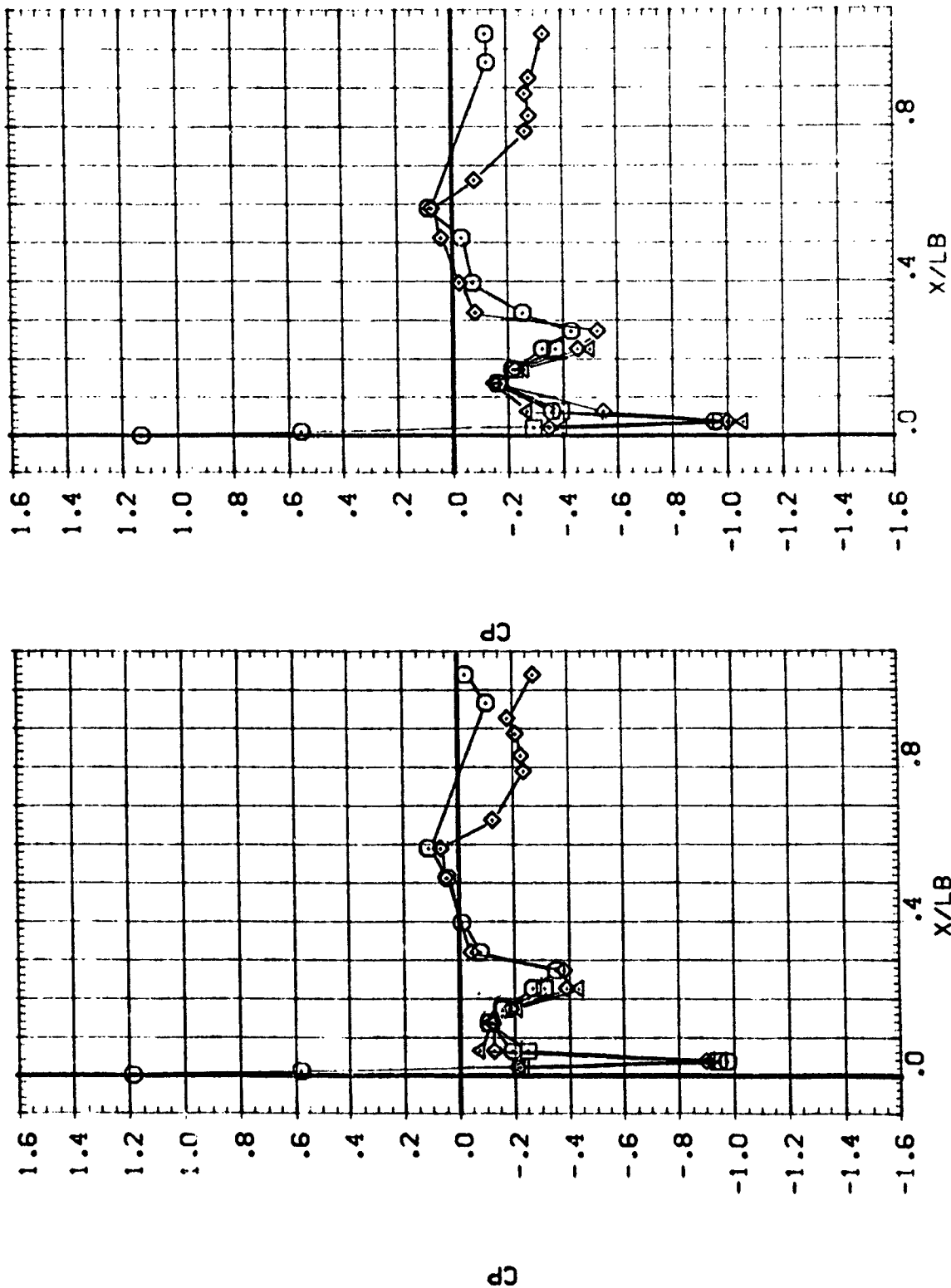
PH: .000
20.000
40.000
55.000

BETAT 4.140
8.270

MACH .698

PARAMETRIC VALUES

ALPHAT -8.000 ORBINC .500
RUDDER .000 ELEVON .000
RUJFLR .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES



14

AMES 11-707 1A9 02A - S3 + T9 ORBITER FUSELAGE (RBM803)

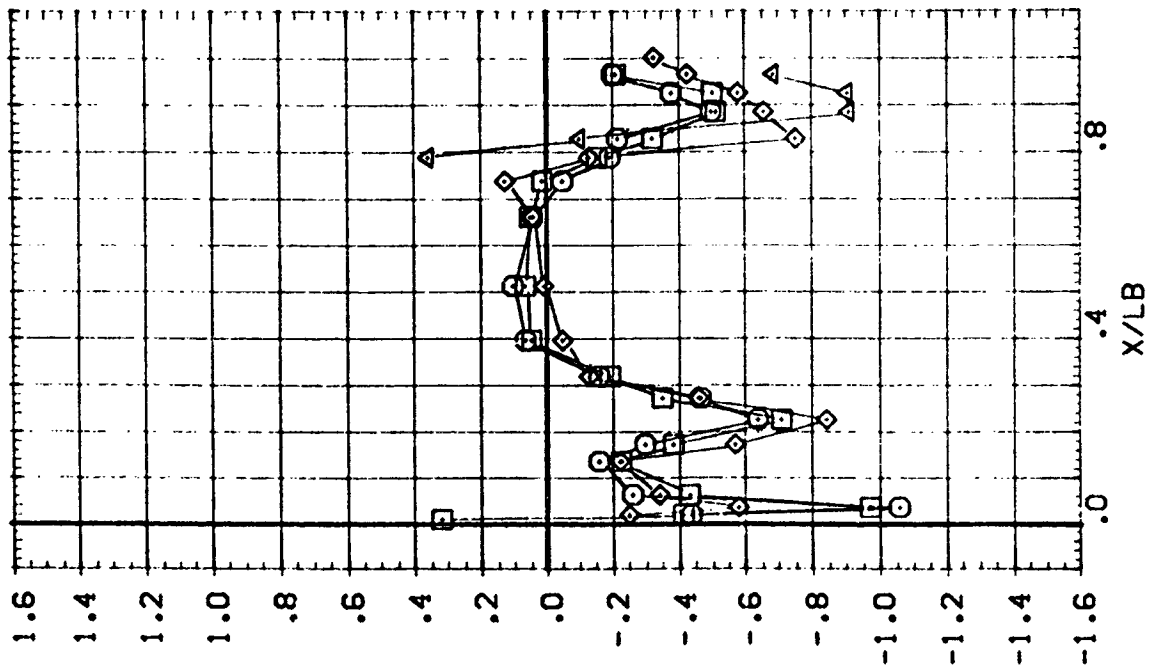
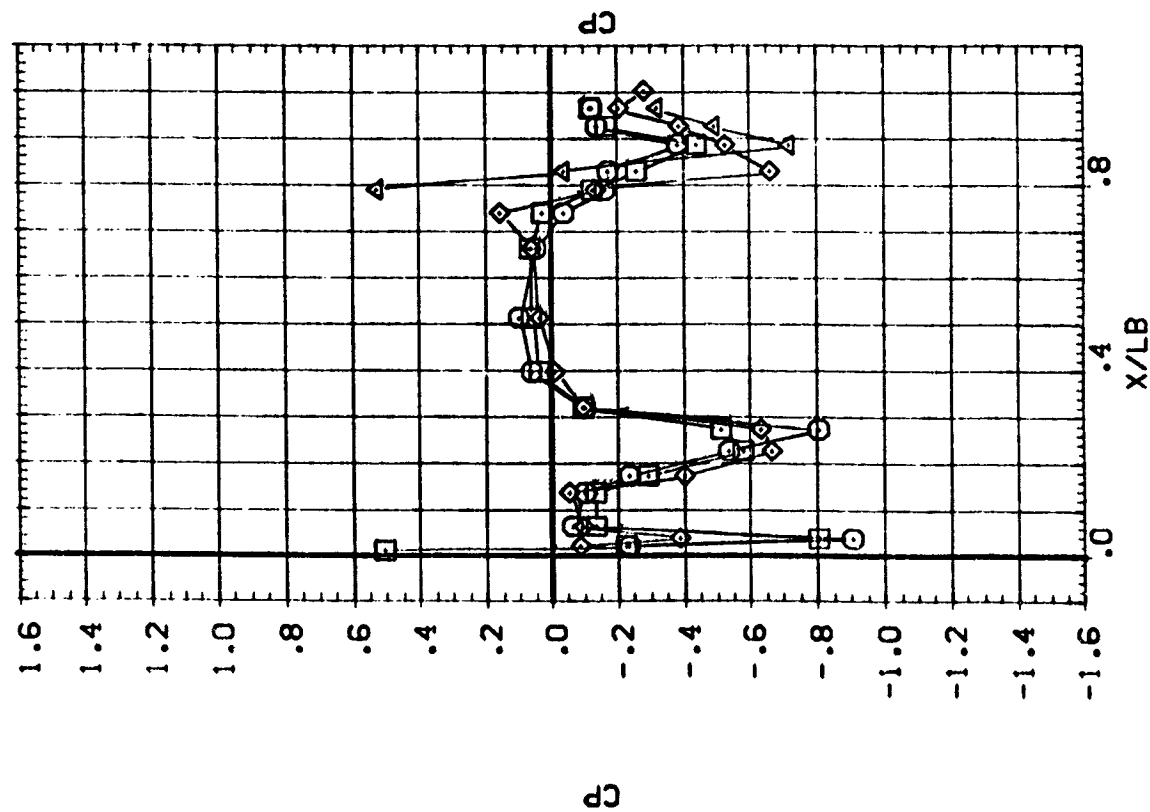
SYMBOL
O
□
◇
△

PM:
70.000
90.000
120.000
135.000

BETAT
4.140
8.270

MACH
.898

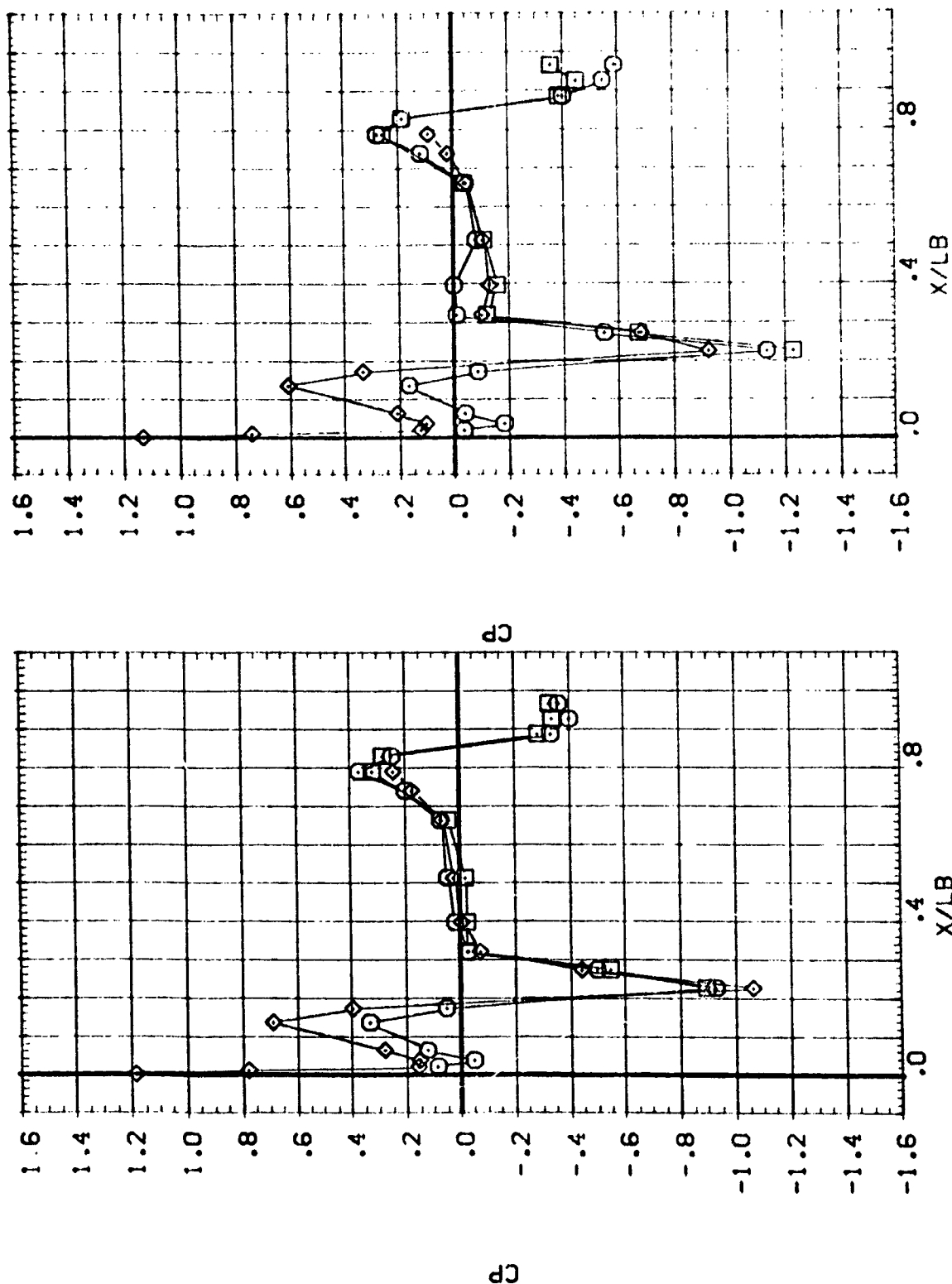
PARAMETRIC VALUES
ALPHAT -8.000 ORBITINC .500
RUDER .000 ELEVON .000
RUDFLR .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 11-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (RBMB03)

SYMBOL	PN1	BETAT	MACH	PARAMETRIC VALUES
○	150.000	4.140	.898	ALPHAT -8.000 ORBINC .500
□	165.000	8.270		RUDDER .000 ELEVON .000
◇	180.000			RUDFLR .000

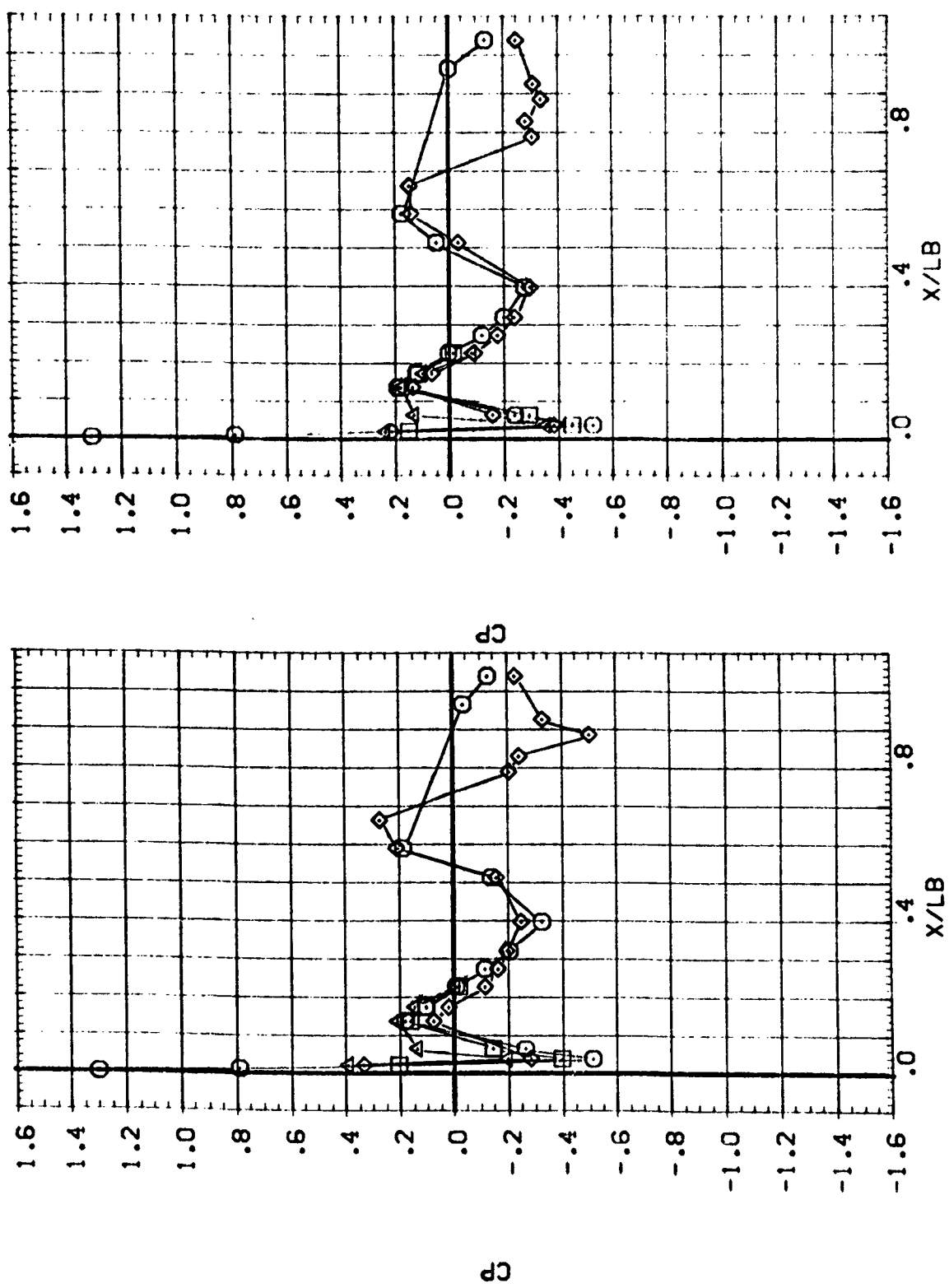


LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES



AMES 11-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (RBMB03)

SYMBOL	PHI	BETAT	MACH	PARAMETRIC VALUES
○	.000	-4.080	1.102	ALPHAT
□	20.000	.020		RJODER
◇	40.000			RJOF LR
△	55.000			
				-8.000 GRB INC
				.000 ELEVON
				.500
				.000

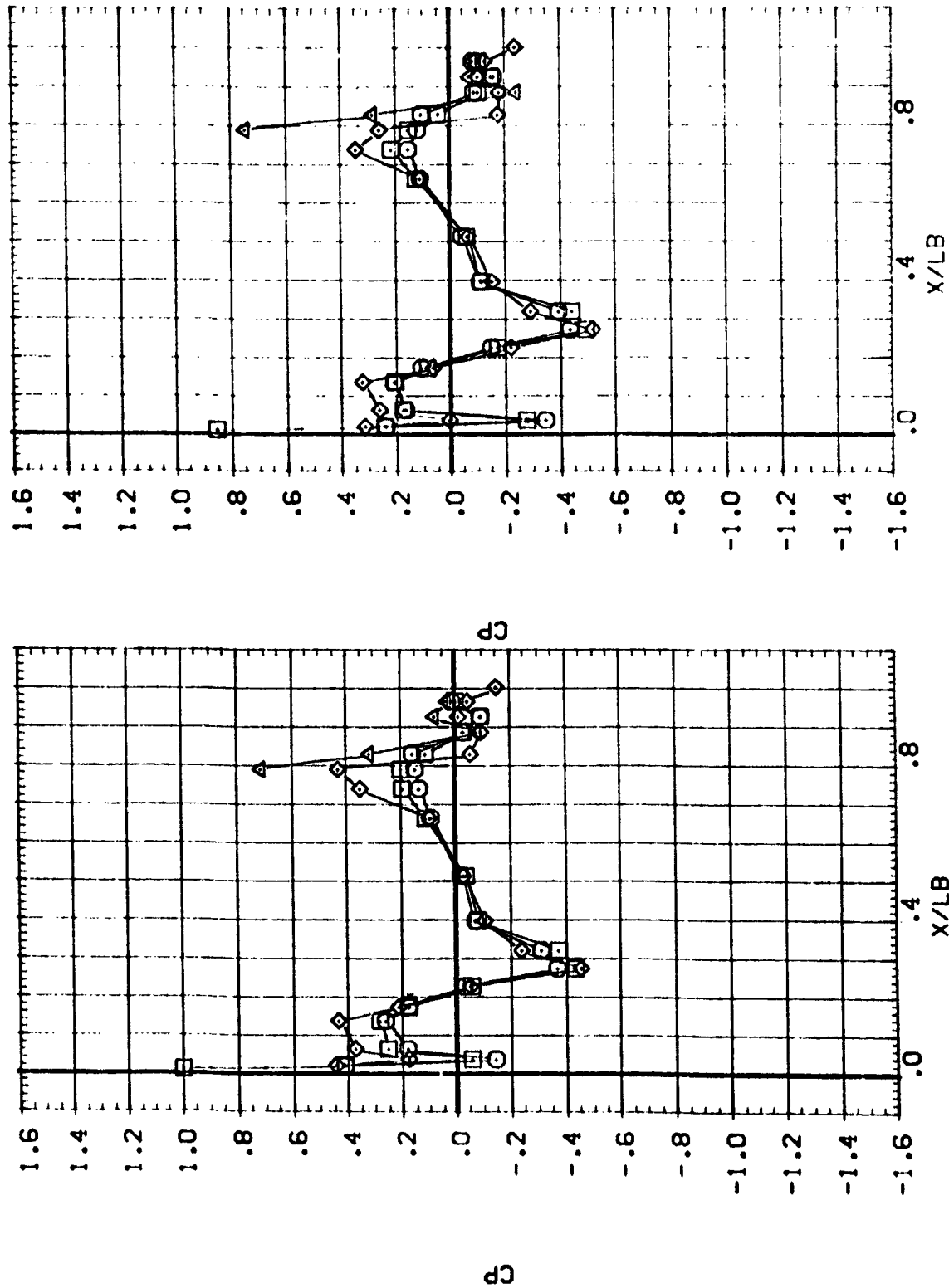


LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES



AMES 11-707 1A9 -2A + S3 + T9 ORBITER FUSELAGE (RBMB03)

SYMBOL	PHI	BETAT	MACH	PARAMETRIC VALUES
○	70.000	-4.080	1.102	ALPHAT
□	90.000	.020		RUDDER
◇	120.000			RUDFLR
△	135.000			-8.000
				ORBINC
				.000
				ELEVEN
				.000

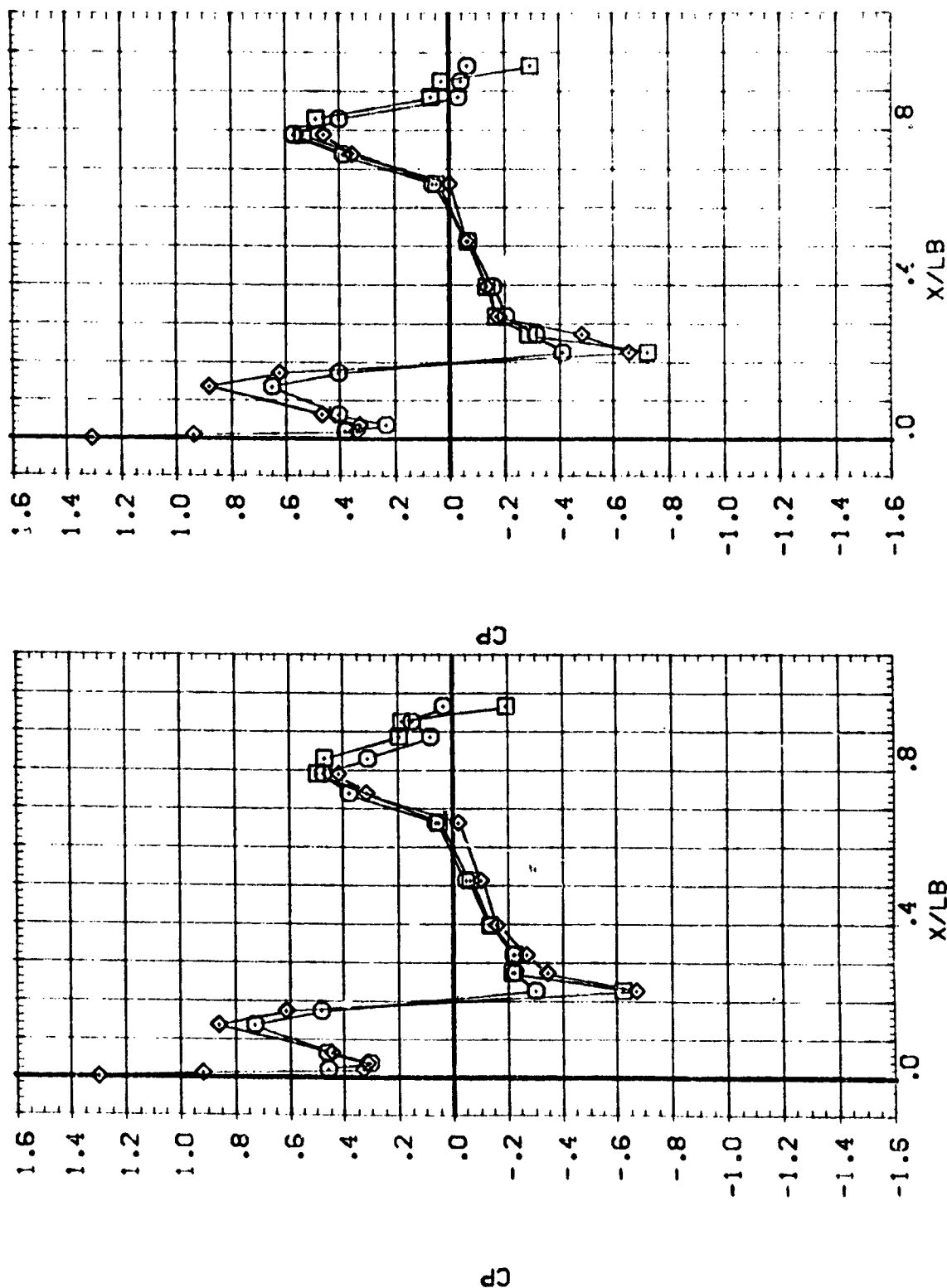


LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES



AMES 11-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (RBMB03)

SYMBOL	PHI	BETAT	MACH	PARAMETRIC VALUES		
○	150.000	-4.080	1.102	ALPHAT	-8.000	CRBINC
◇	165.000	.020		RUDER	.000	ELEVON
	180.000			RUDFLR	.000	



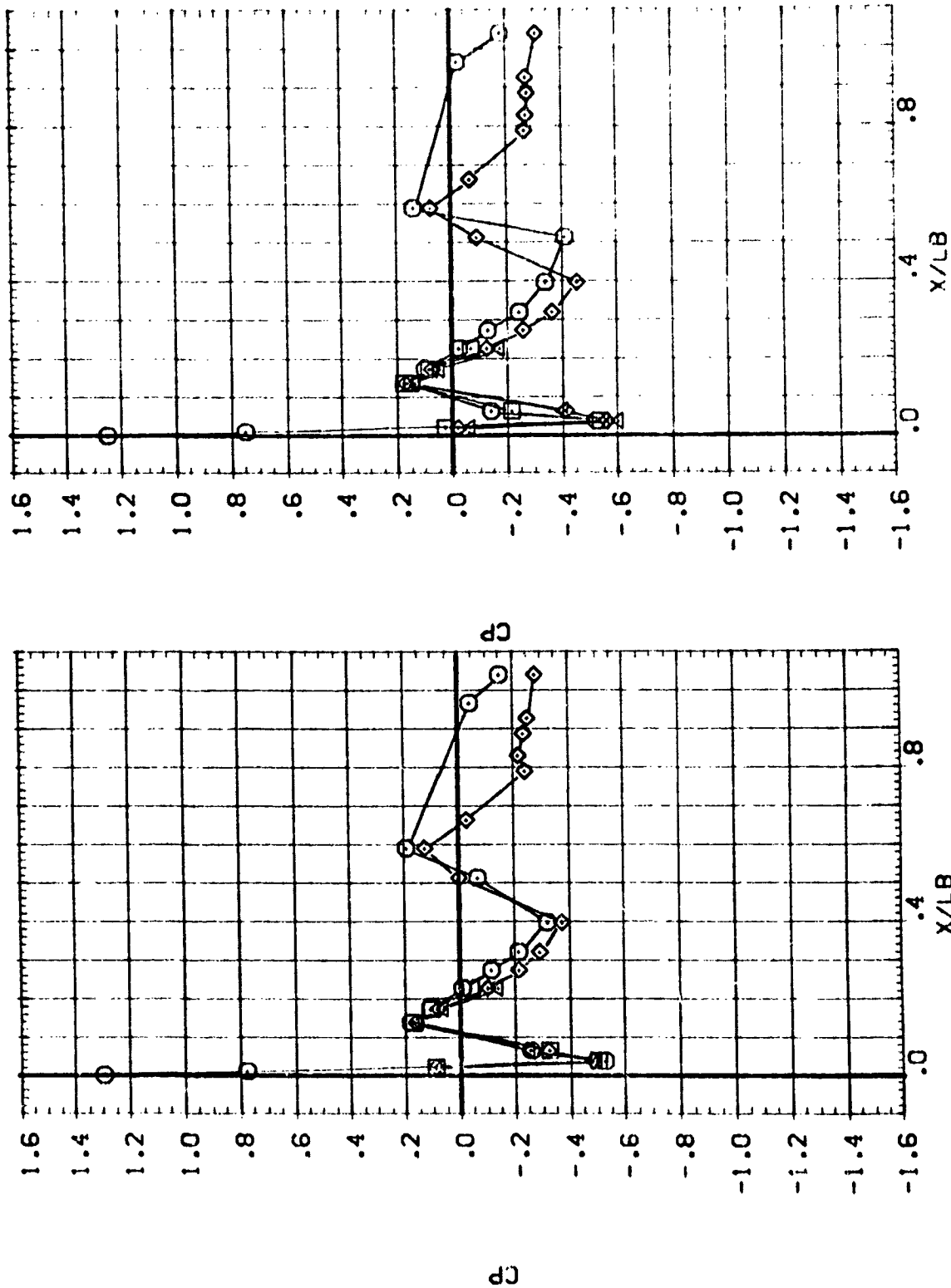
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 11-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (RBMB03)

SYMBOL
 ○
 □
 ◇

PARAMETRIC VALUES
 ALPHAT -8.000
 RUDER .000
 RUFLR .000
 MACH 1.100
 BETAT 4.160
 7.800

PARAMETRIC VALUES
 ORBITING .500
 ELEVON .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES



AMES 11-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (RBMB03)

SYMBOL
O
I
L
D
A

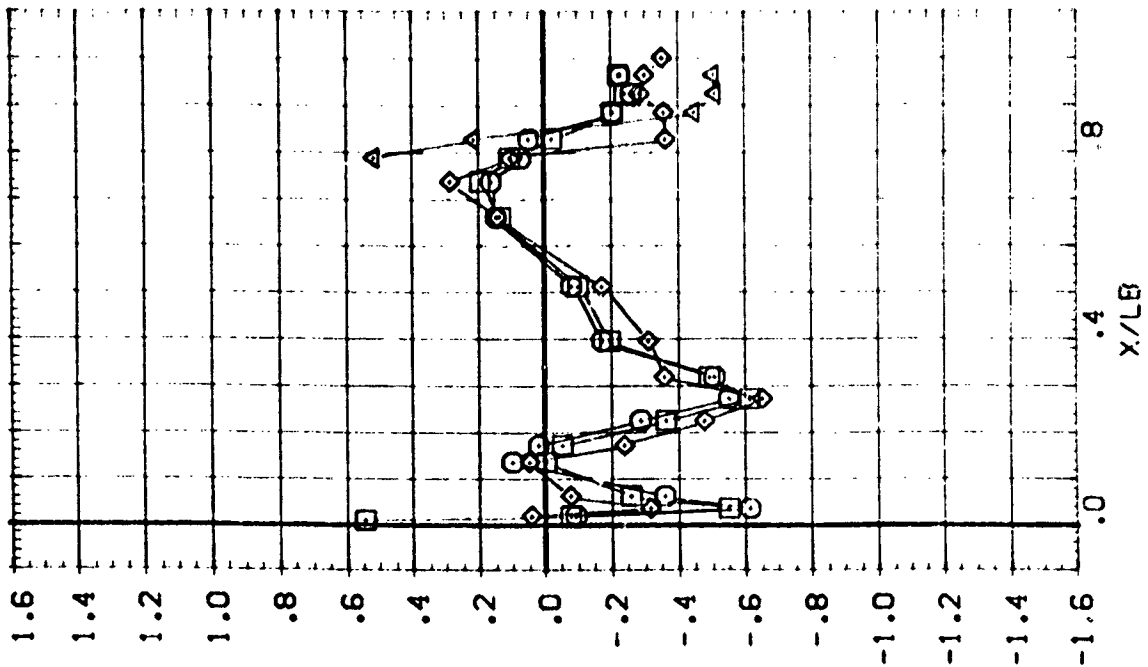
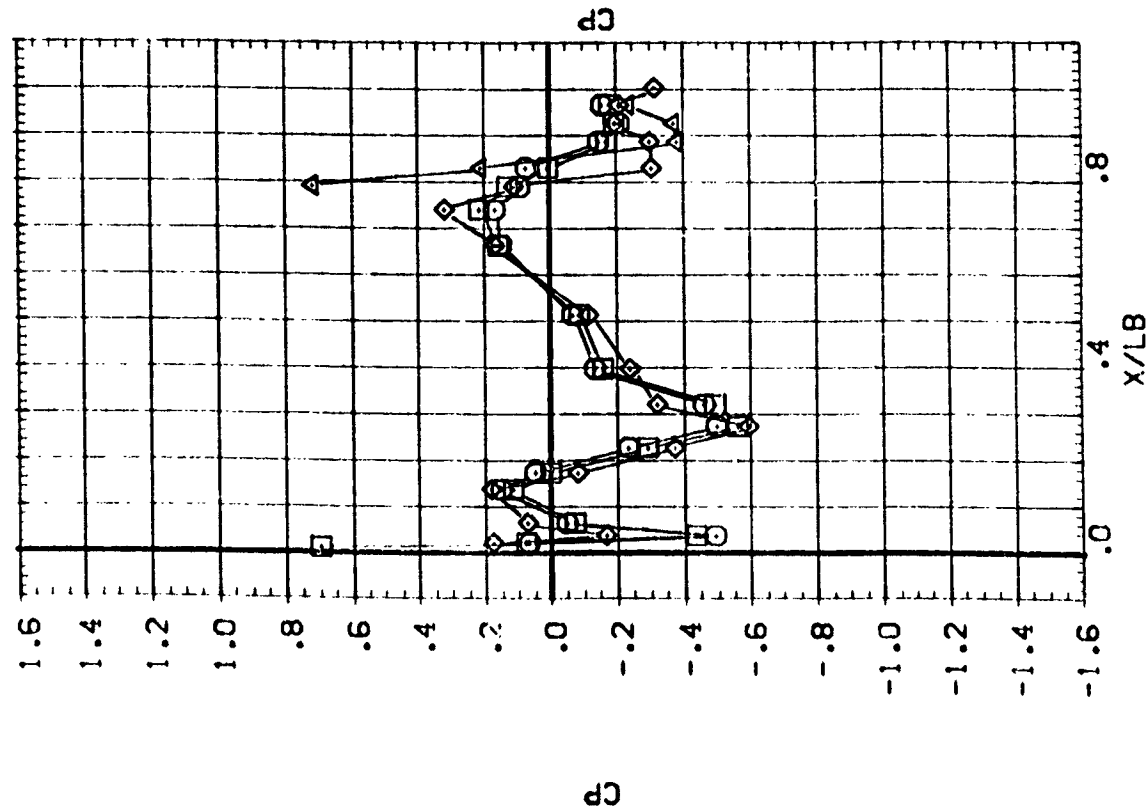
PHI
70.000
90.000
120.000
135.000

BETAT
4.50
7.800

MACH
1.100

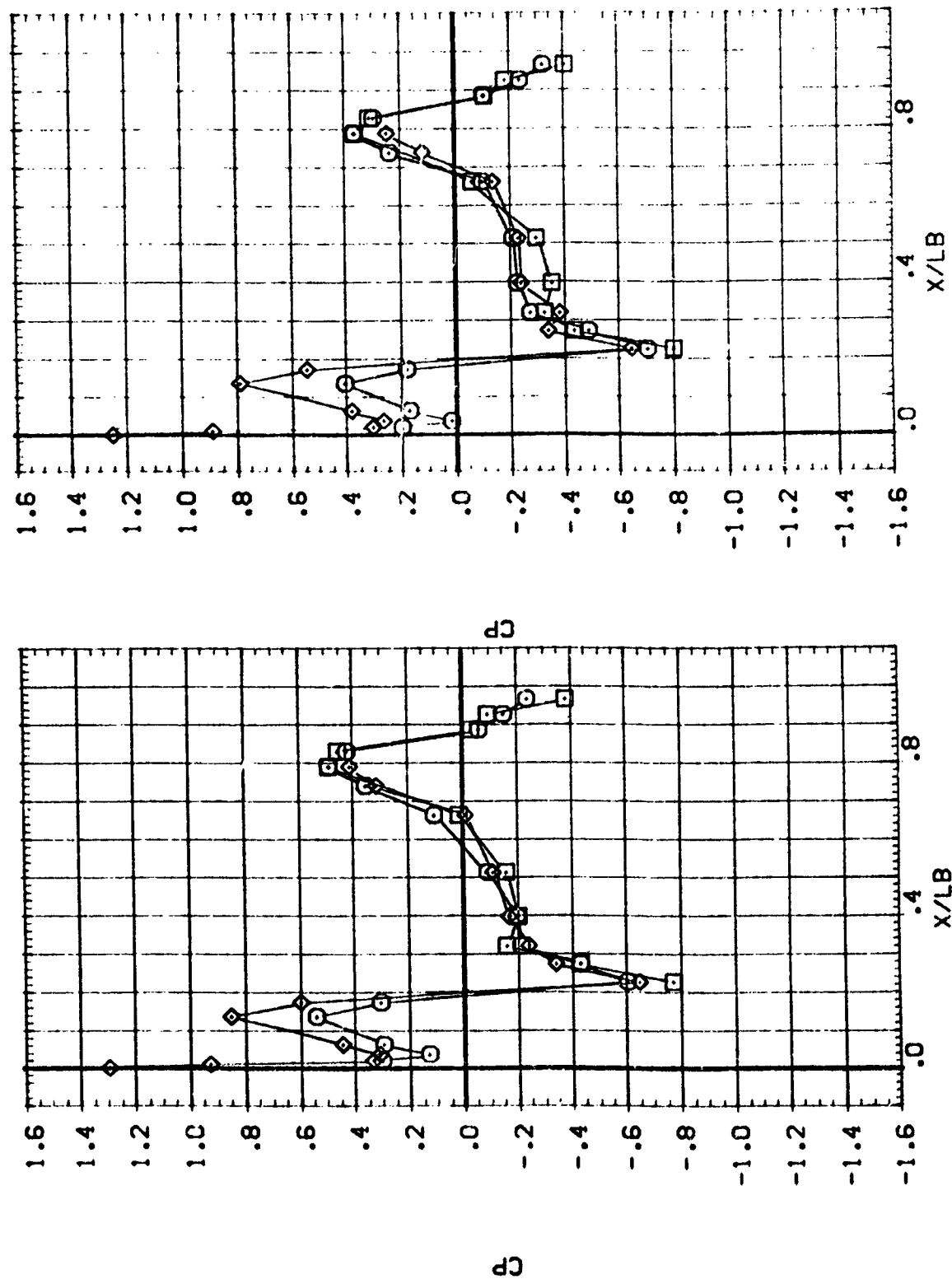
PARAMETRIC VALUES
ALPHAT
RUDFOR
RUDFOR

.500
.000
ELEVEN
.000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

SYMBOL	PHI	BETAT	MACH	PARAMETRIC VALUES
○	150.000	4.160	1.100	ALPHAT -8.000 ORBINC .500
□	165.000	7.800		RUDER .000 ELEVON .000
◇	180.000			RJOFLE .000



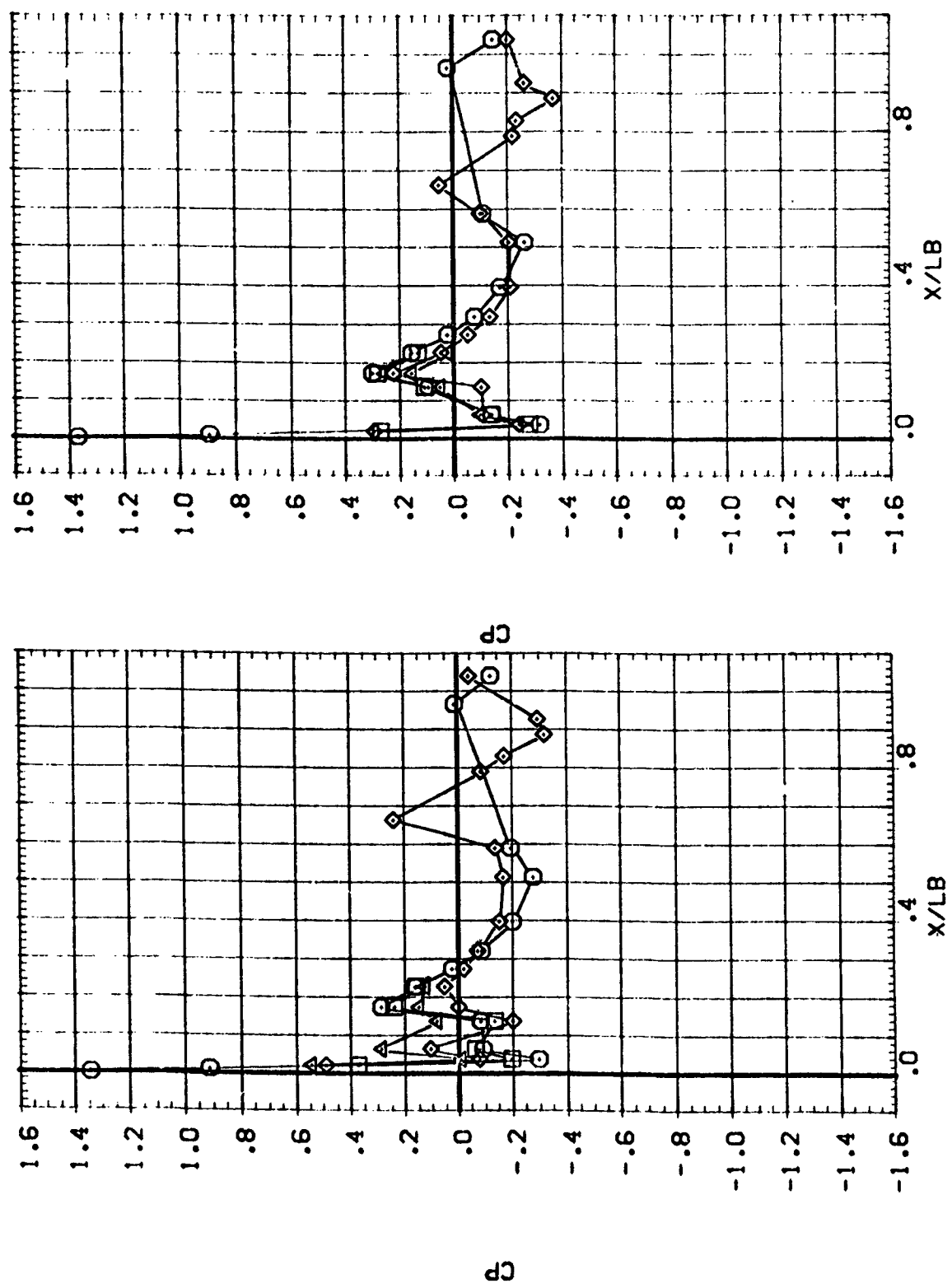
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES



4.5.4

AMES 11-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (RBM03)

SYMBOL	PHI	BETAY	MACH	PARAMETRIC VALUES			
				ALPHAT	CRBINC	RJDOER	ELEVON
○	.000	-4.050	1.245	-8.000	.000	.500	.000
◇	20.000	2.080		.000	.000	.000	.000
△	40.000						
	55.000						



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

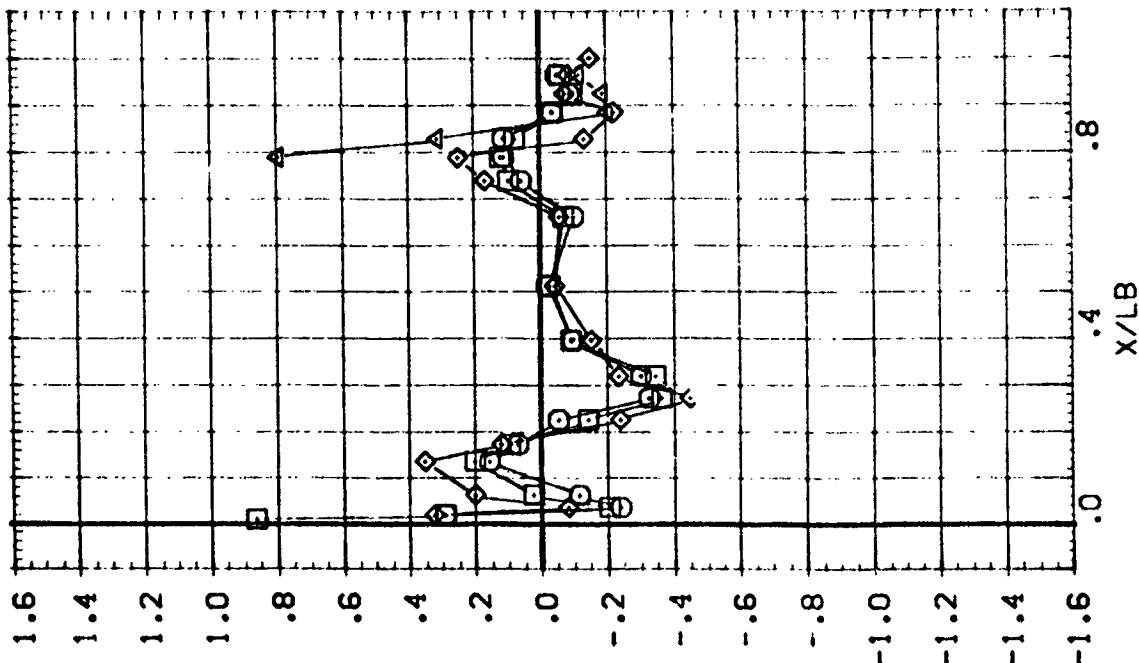
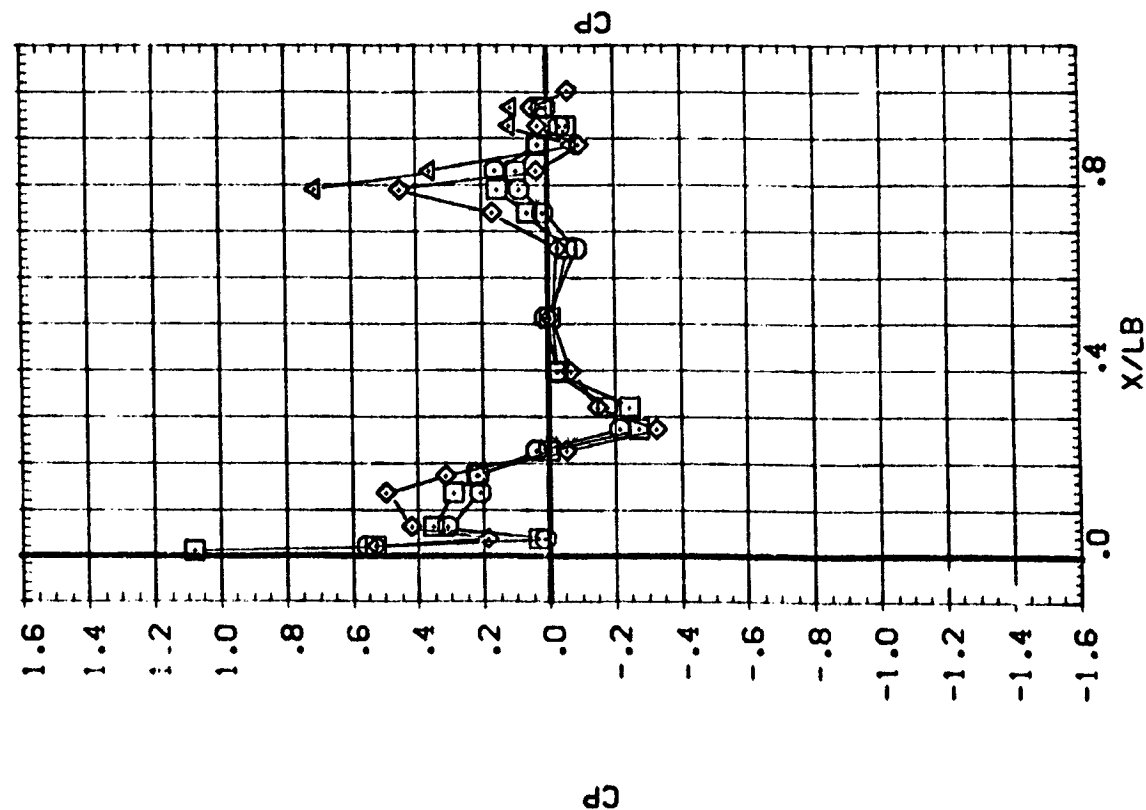
SYMBOL
 □
 ○
 △

PHI
 70.000
 90.000
 120.000
 135.000

BETAT
 -4.050
 2.080

MACH
 1.245

PARAMETRIC VALUES
 ALPHAT
 RUDDER
 RUJFLR
 -8.000
 .000
 .000
 ORBINC
 ELEVON
 .500
 .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 11-707 1A9 C2A + S3 + T9 ORBITER FUSELAGE (RBMB03)

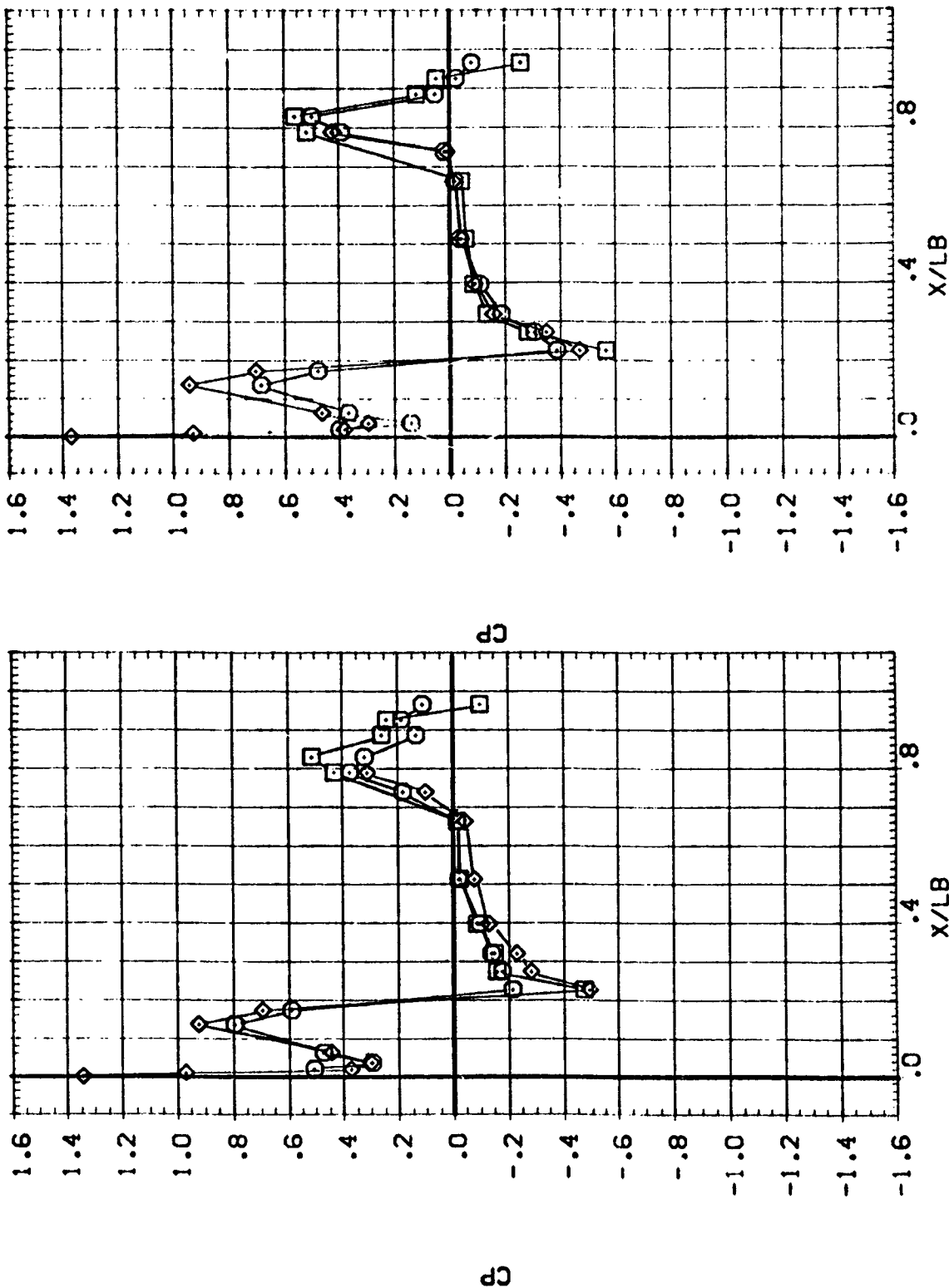
SYMBOL
 ○ □ ◇

PHI
 150.000
 165.000
 180.000

BETAT
 -4.050
 2.080

MACH
 1.245

PARAMETRIC VALUES
 ALPHAT -8.000 ORBINC .500
 RUDDER .000 ELEVON .000
 RUOFLR .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 11-707 IAS 02A + S3 + T9 ORBITER FUSELAGE (RBM03)

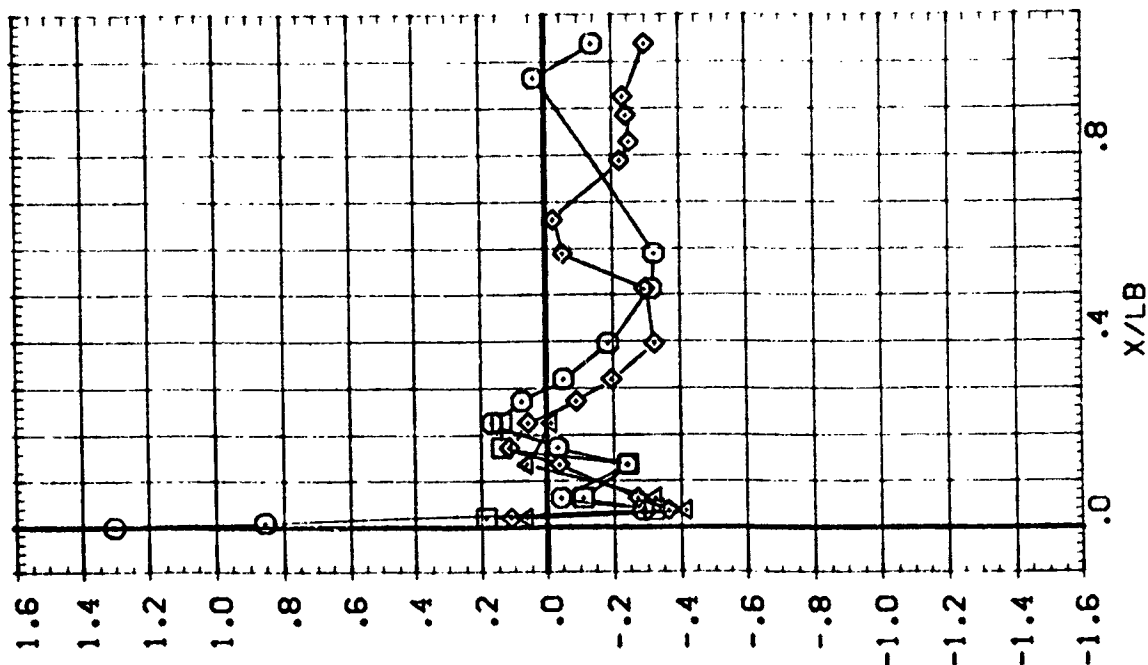
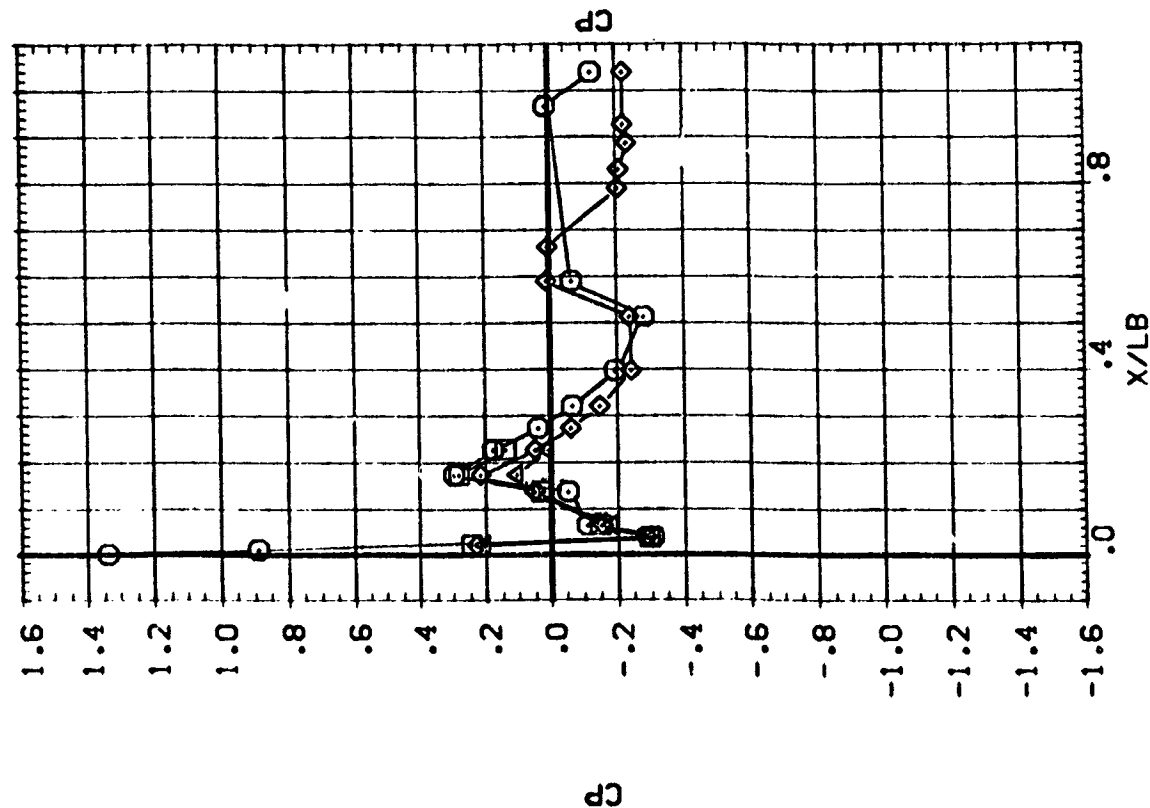
SYMBOL
 ○
 □
 ◇
 △

PHI
 .000
 20.000
 40.000
 55.000

BETAT
 4.140
 8.250

MACH
 1.247

PARAMETRIC VALUES
 ALPHAT -8.000 ORBIT NC .500
 RUDDER .000 ELEVON .000
 RUDFLR .000

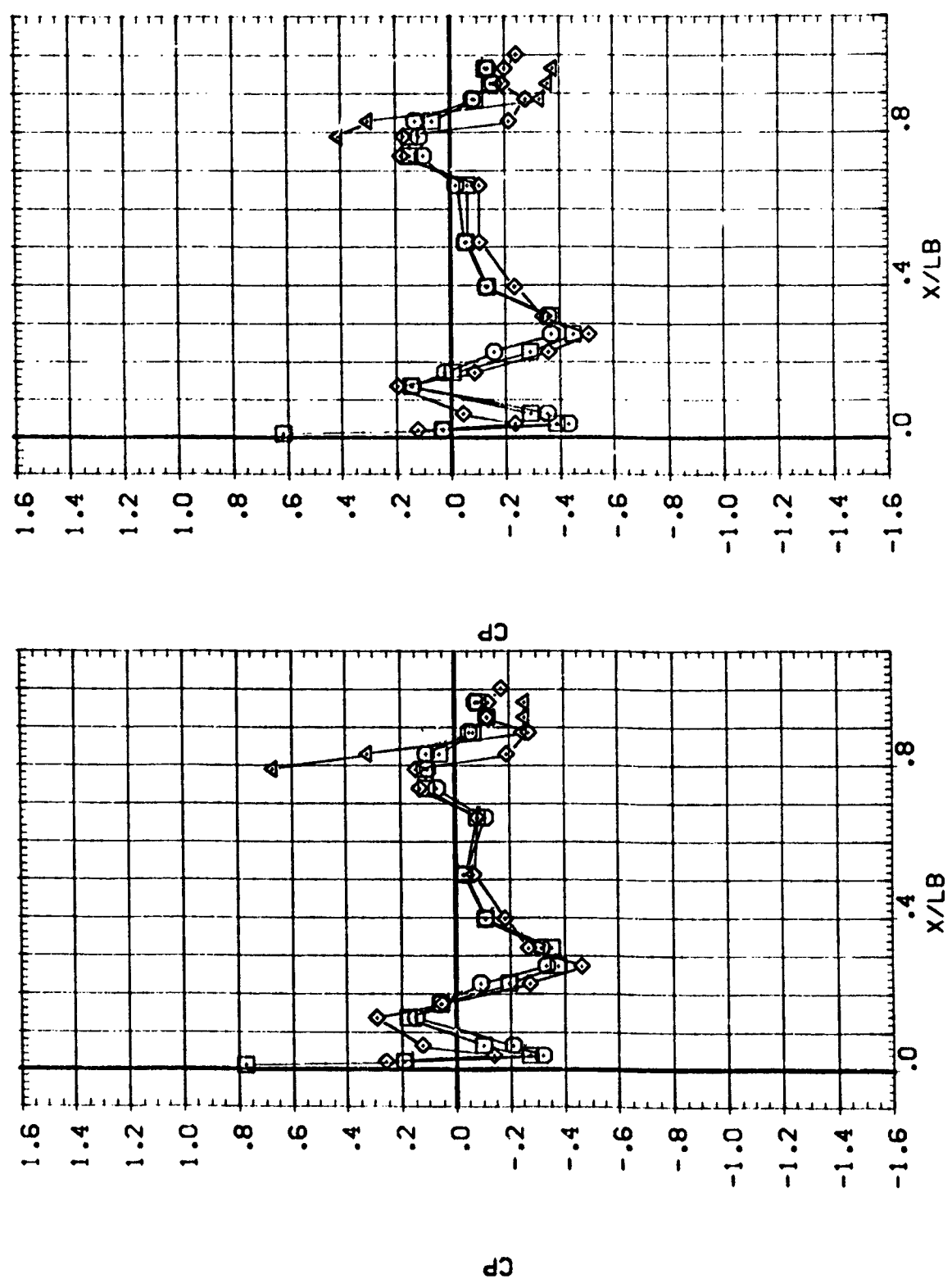


LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES



AMES 11-707 1A9 C2A + S3 + T9 ORBITER FUSELAGE (RBMB03)

SYMBOL	PH	BETAT	MACH	PARAMETRIC VALUES
○	70.000	4.140	1.247	WAT
◇	90.000	8.250		-8.000
△	120.000			ORBINC
	135.000			.000
				ELEVON
				.000
				LR
				.000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

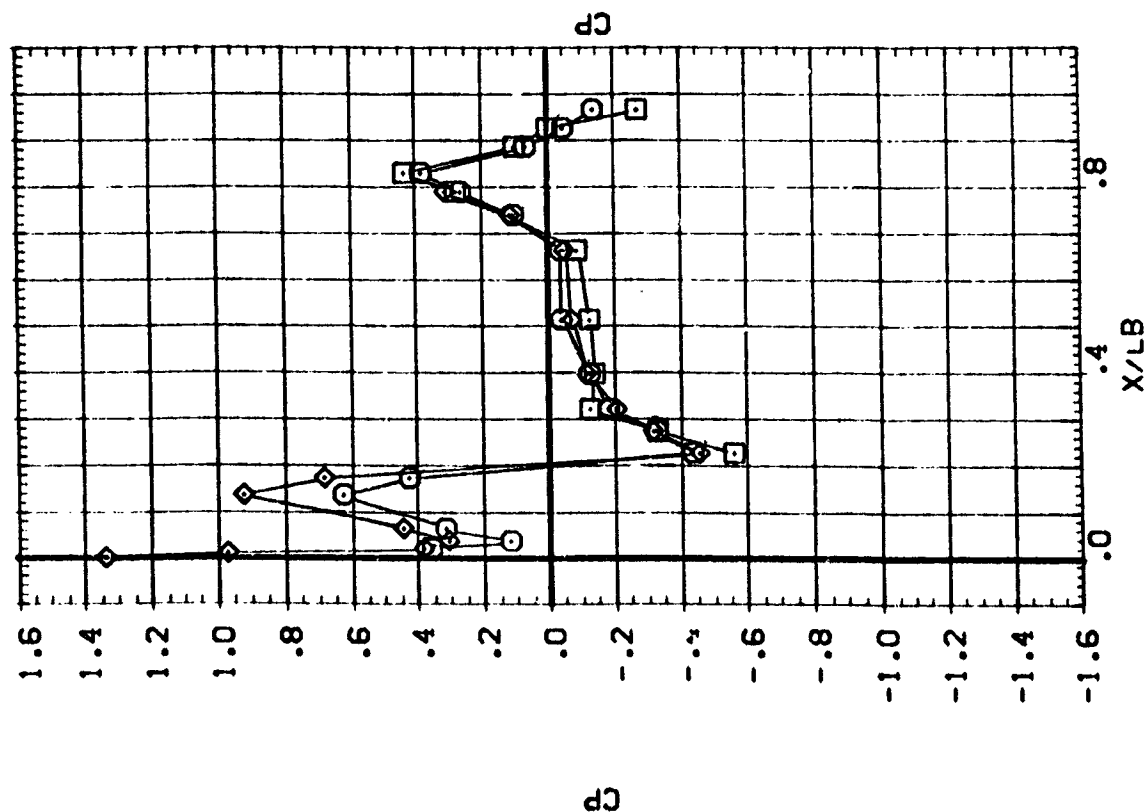
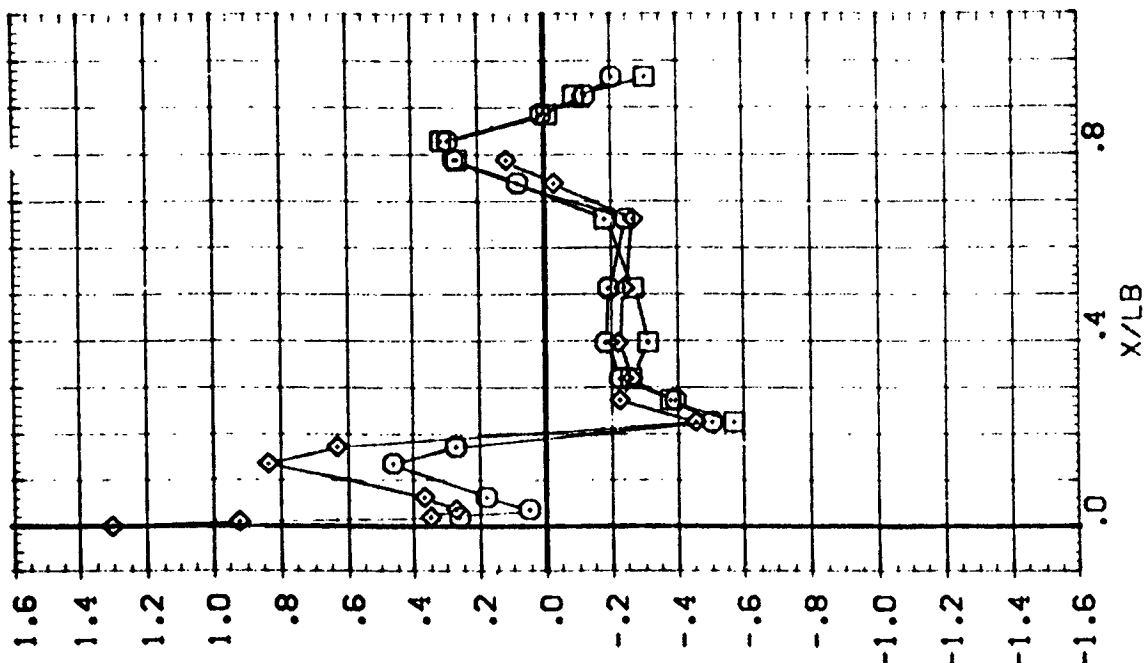
AMES 11-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (RBMB03)

PARAMETRIC VALUES
 -8.000 ORBIT INC .500
 .000 ELEV .000

ALPHAT
 RUDDER
 RUDFLR

PHI BETAT MACH
 150.000 4.140 1.247
 165.000 8.250
 180.000

SYMBOL
 □
 ○
 ◇

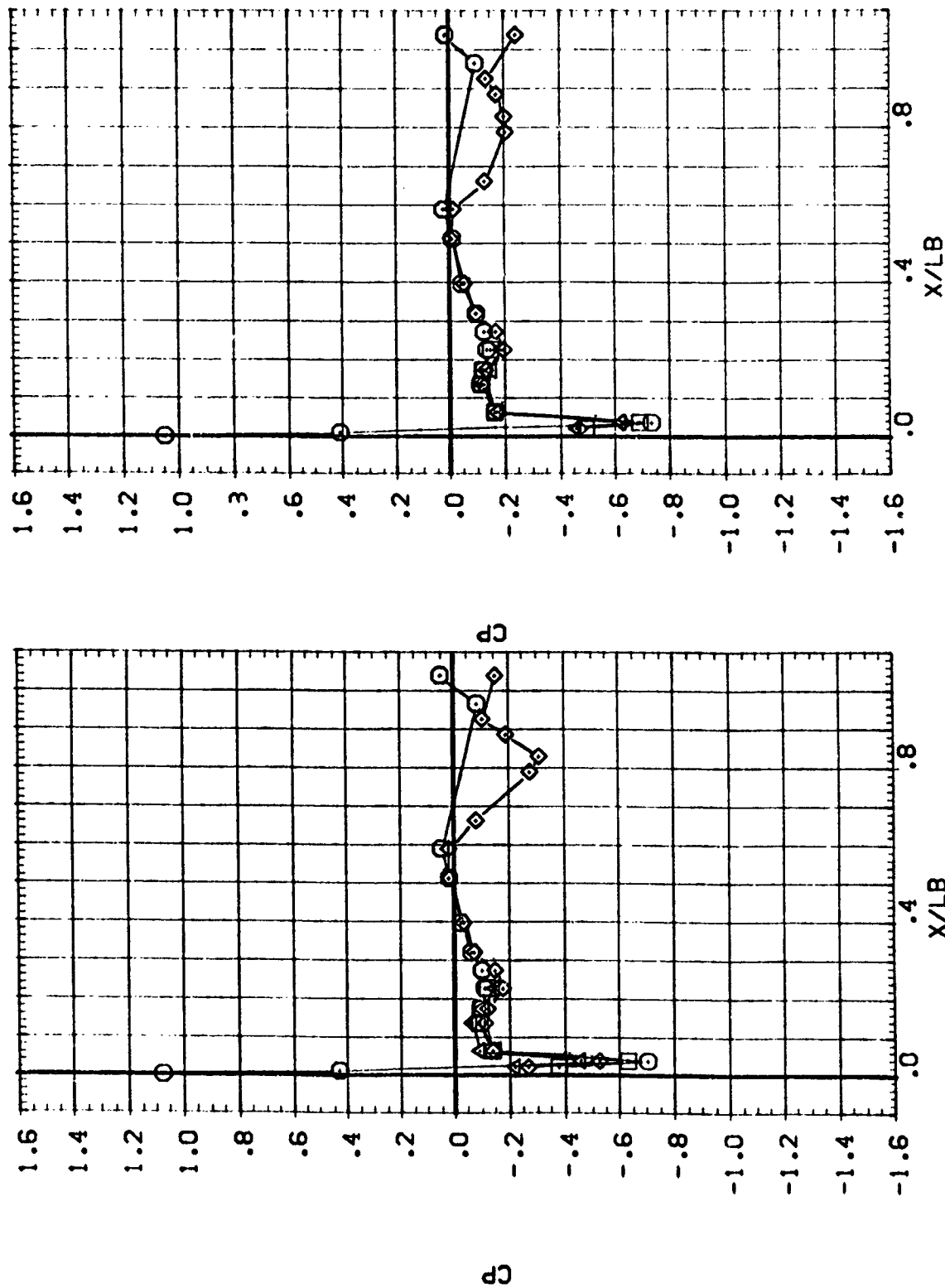


LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES



AVES 11-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (RBM005)

SYMBOL	PHI	BETAT	MACH	PARAMETRIC VALUES			
				ALPHAT	RJDOER	RJDFLR	
○	.000	.020	.600	-4.000	.000	.000	.500
□	20.000	4.080					.000
◇	40.000						
△	55.000						

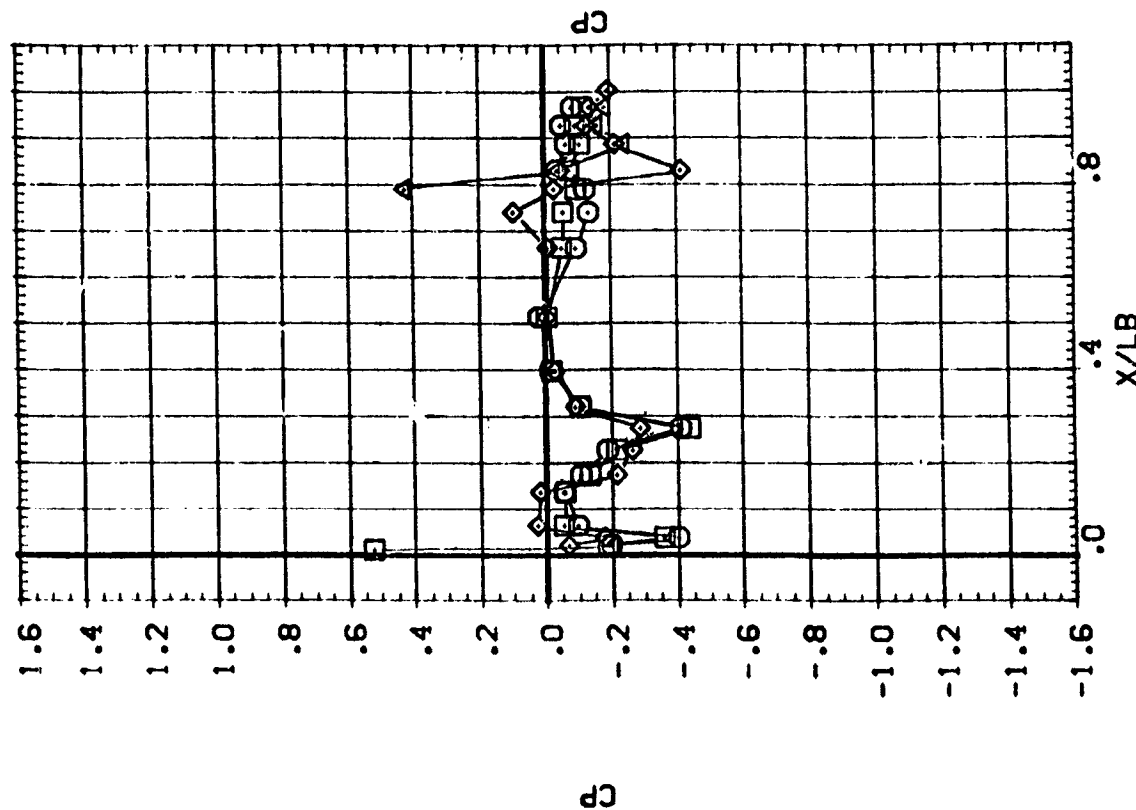
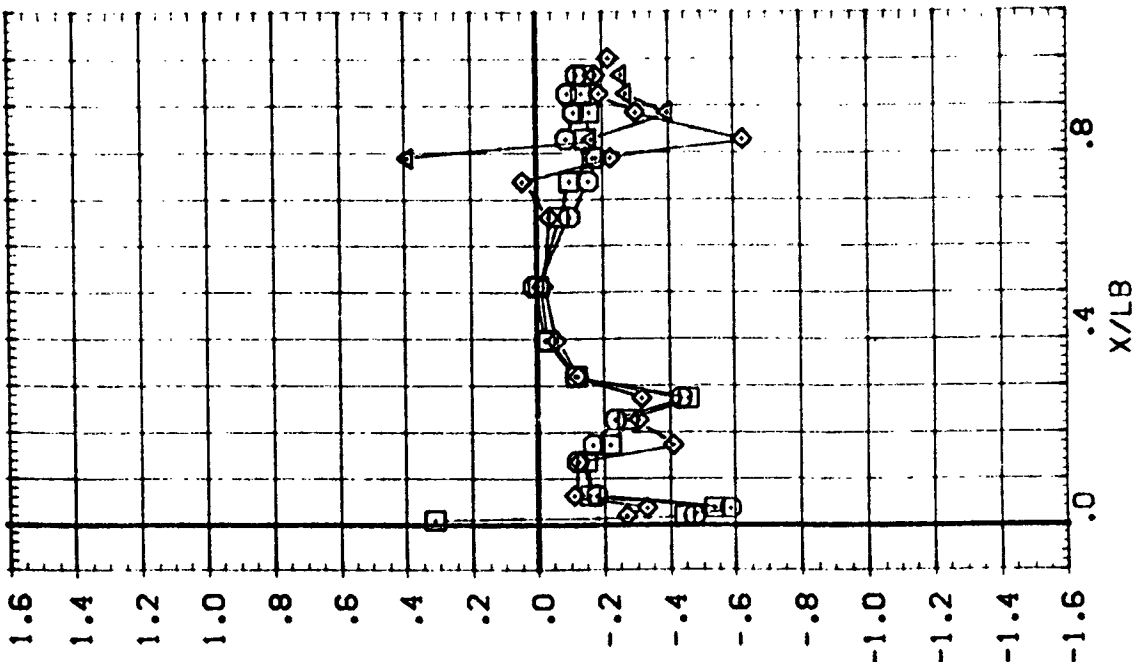


LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 11-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (R8MB05)

PARAMETRIC VALUES
 ALPHAT -4.000 ORBINC .500
 RUDDER .000 ELEVON .000
 RUDDLR .000

PH: 70.000 MACH .600
 90.000
 120.000
 135.000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AVES 11-707 :A9 C2A + S3 + T9 ORBITER FUSELAGE (RBM805)

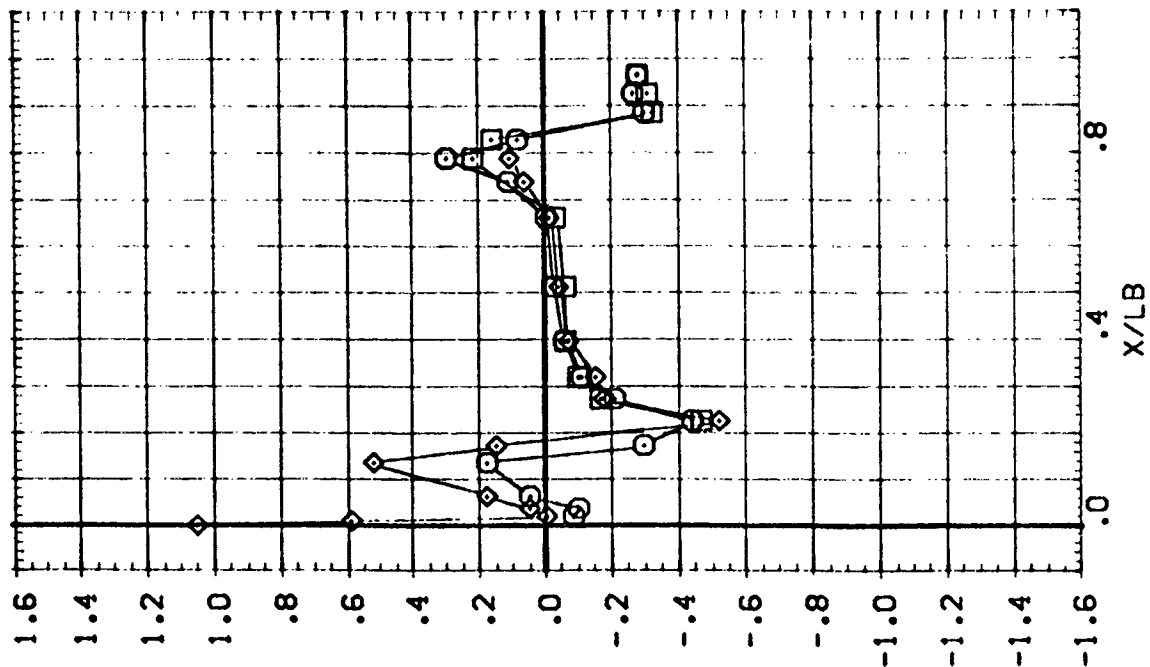
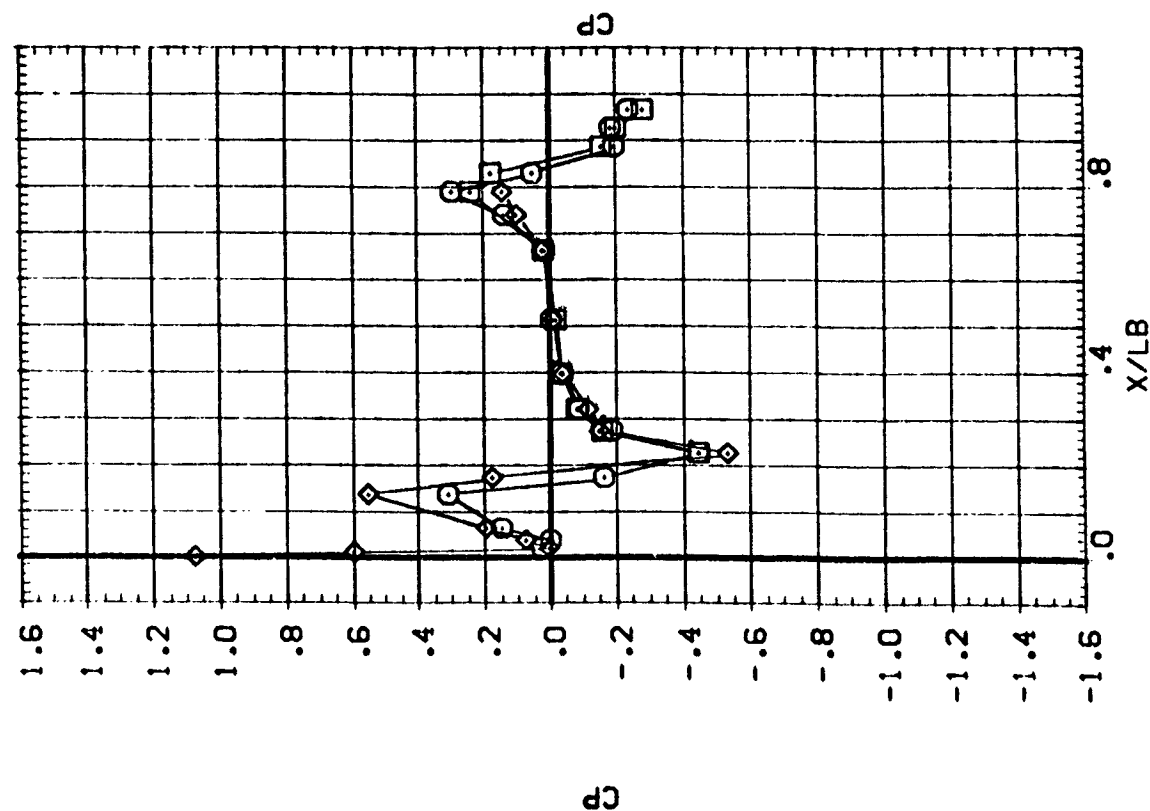
SYMBOL
 ○
 □
 ◇

PLI
 150.000
 165.000
 180.000

BETAT
 .020
 4.080

MACH
 .600

PARAMETRIC VALUES
 ALPHAT
 RUDDER
 RUDFLR
 -4.000
 .000
 .000
 DRBINC
 ELEVON
 .500
 .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

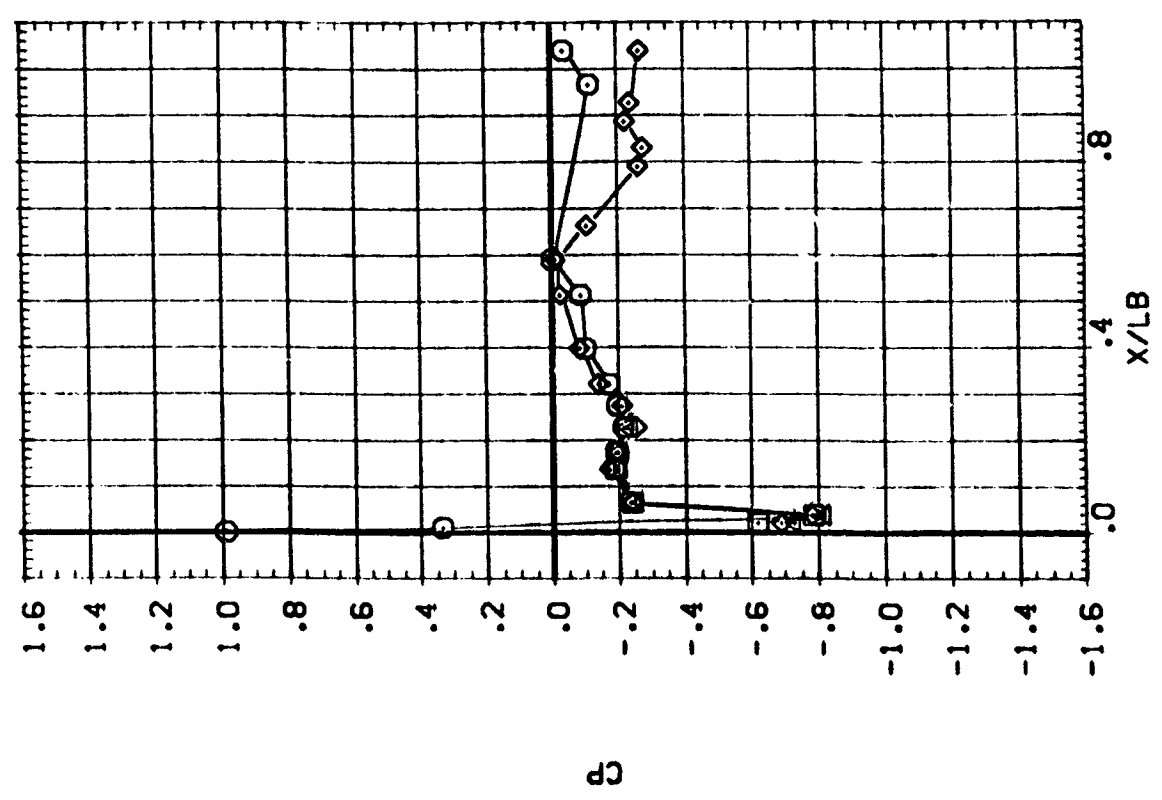
AMES 11-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (RBMB05)

PARAMETRIC VALUES

ALPHAT	-4.000	ORBINC	.500
RJODER	.000	ELEVON	.000
RJDELR	.000		

SYMBOL

PHI	BETAT	MACH
.000	8.150	.599
20.000		
40.000		
55.000		

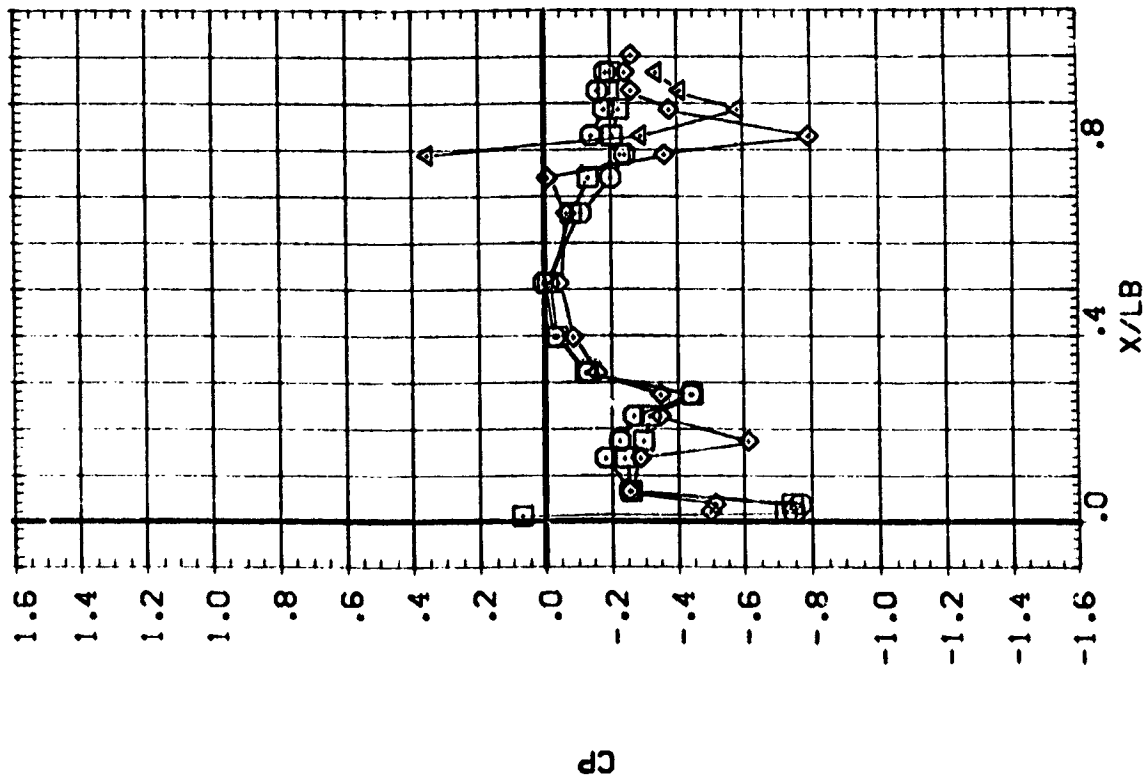


LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES



AVES 11-707 1A9 C2A - S3 + T9 ORBITER FUSELAGE (RBMB05)

SYMBOL	PHAT	BETAT	MACH	PARAMETRIC VALUES
○	70.000	8.150	.599	ALPHAT
□	90.000			RDOOR
◇	20.000			RDOFLR
△	135.000			



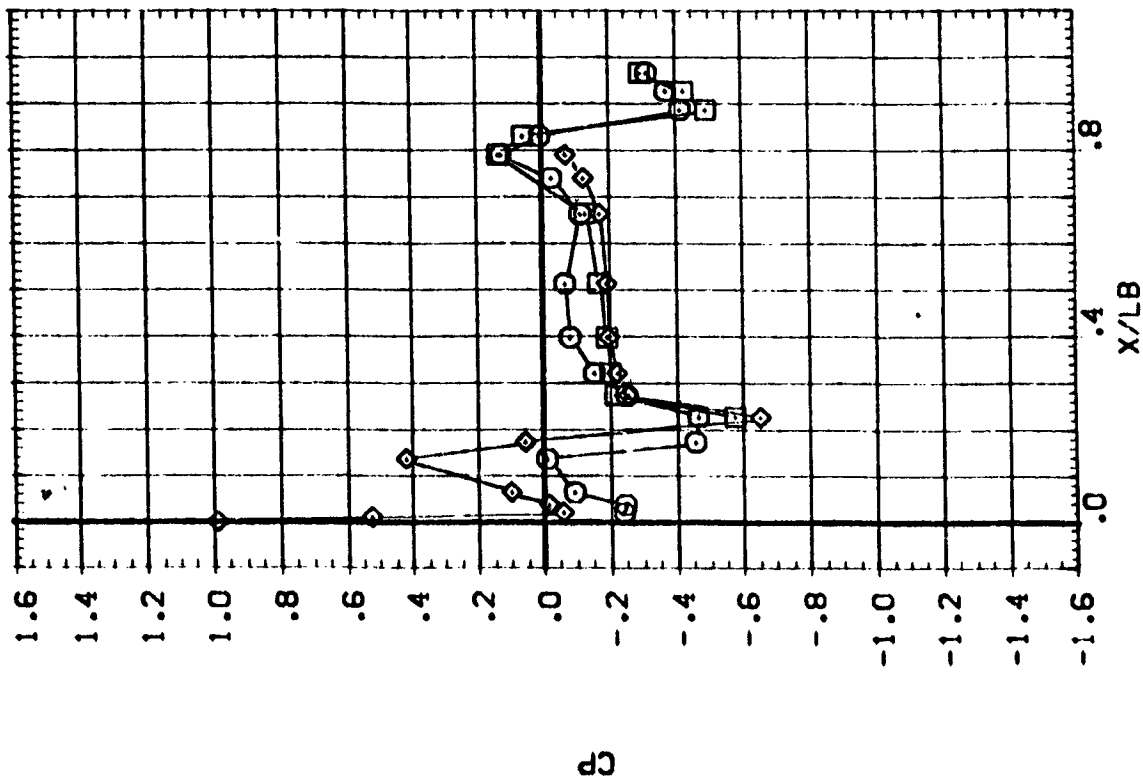
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AVES 11-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (RBMB05)

SYMBOL
 150.000
 165.000
 180.000

PHI
 8.150
 MACH
 .599

PARAMETRIC VALUES
 ALPHAT -4.000 ORBINC .500
 RUDDER .000 ELEVON .000
 RUDDLR .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES



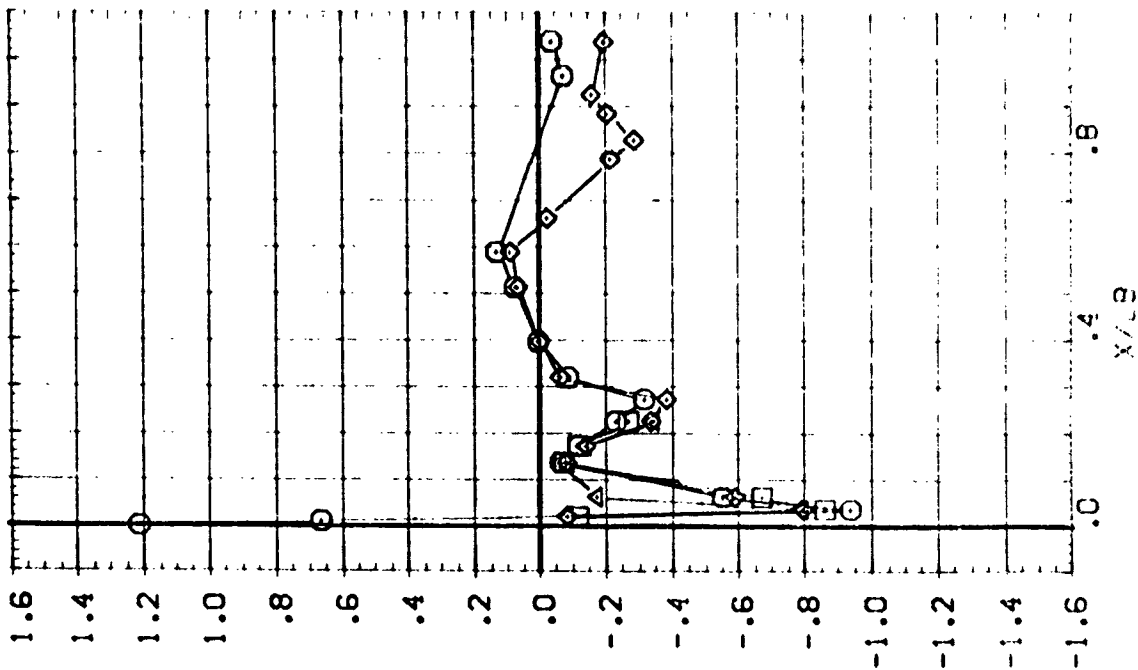
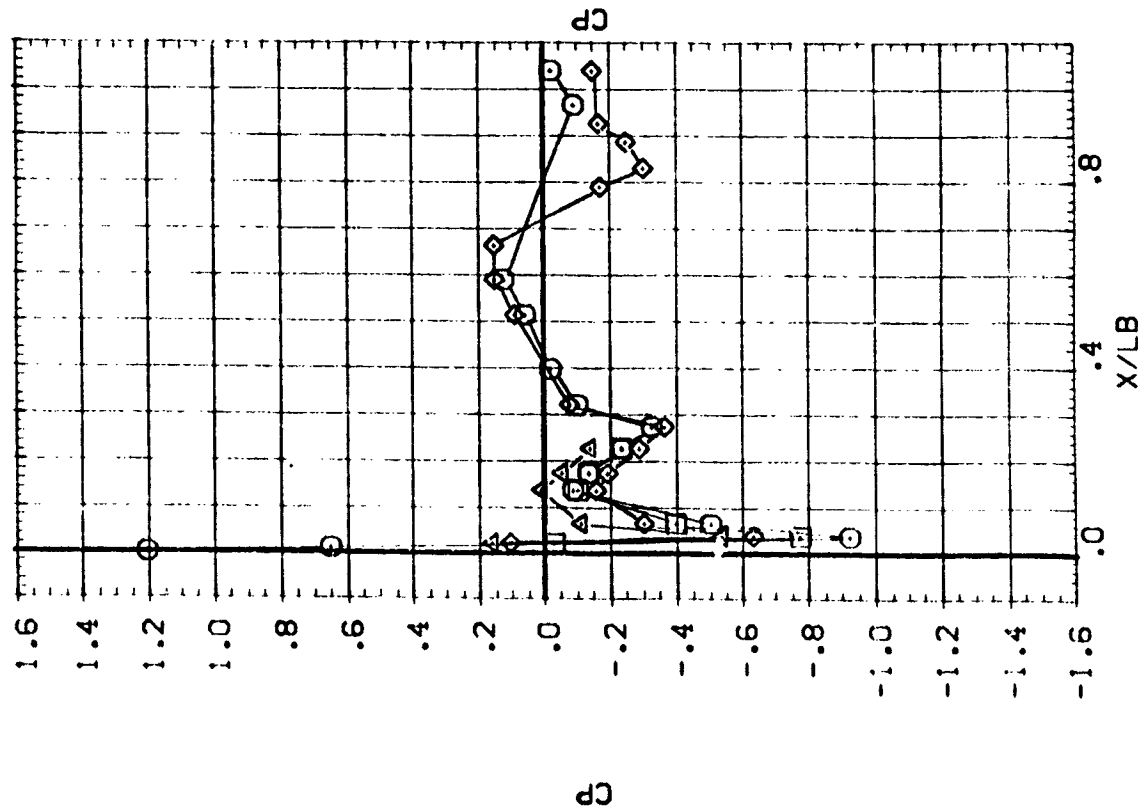
ANES 11-707 1A9 C2A + S3 + T9 ORBITER FUSELAGE (RBMB05)

SYNCH

0.000
20.000
40.000
55.000

BETA* MACH
-4.072 .902
2.070

PARAMETRIC VALUES
ALPHA* -4.000 CRBINC .500
RUGGER .000 ELEVON .000
RUGFLP .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 11-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (RBMB05)

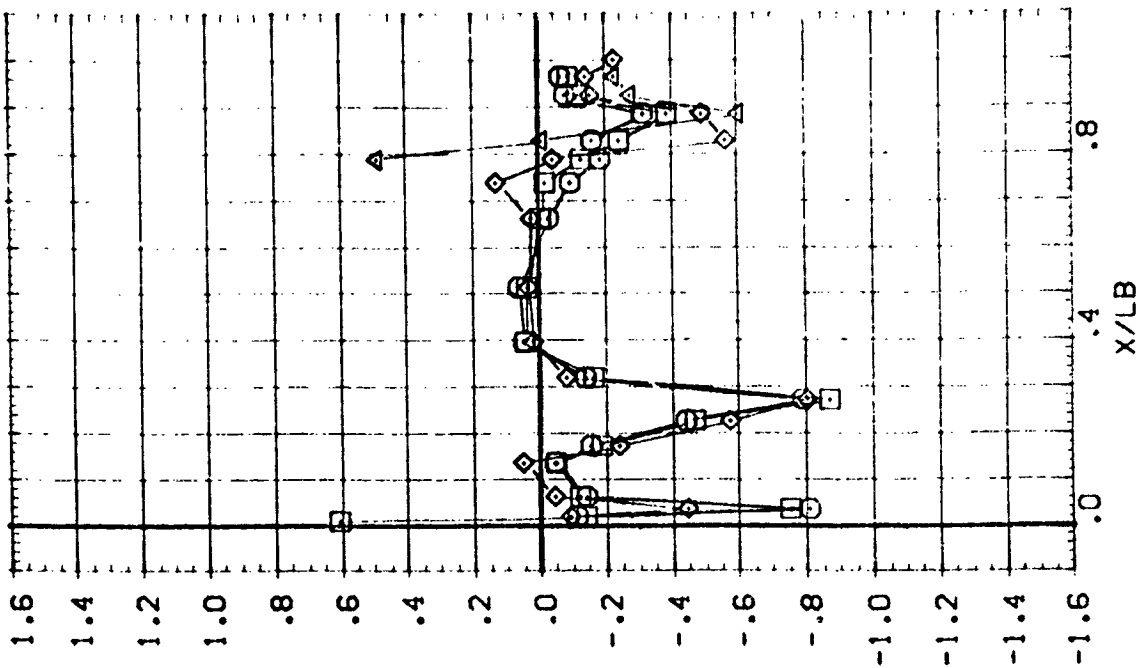
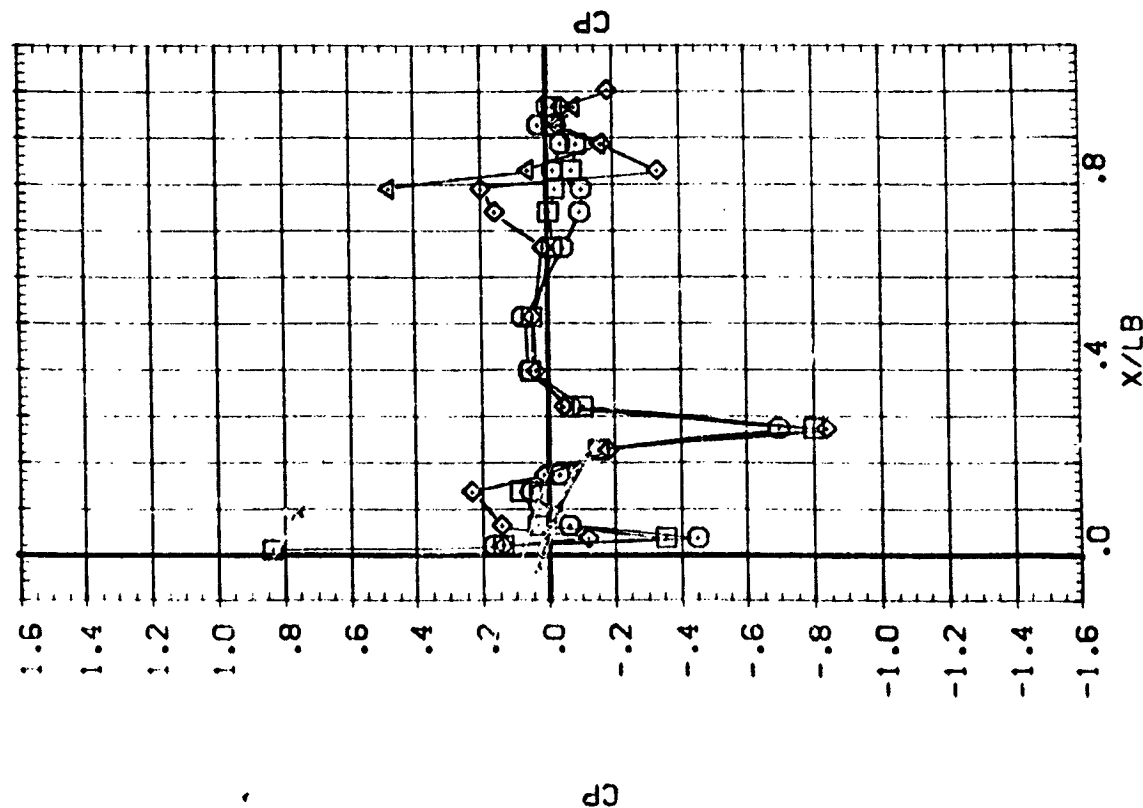
SYMBOL
 O
 □
 △

POS
 70.000
 90.000
 120.000
 150.000

BETAT
 -4.07C
 2.07C

MACH
 .902

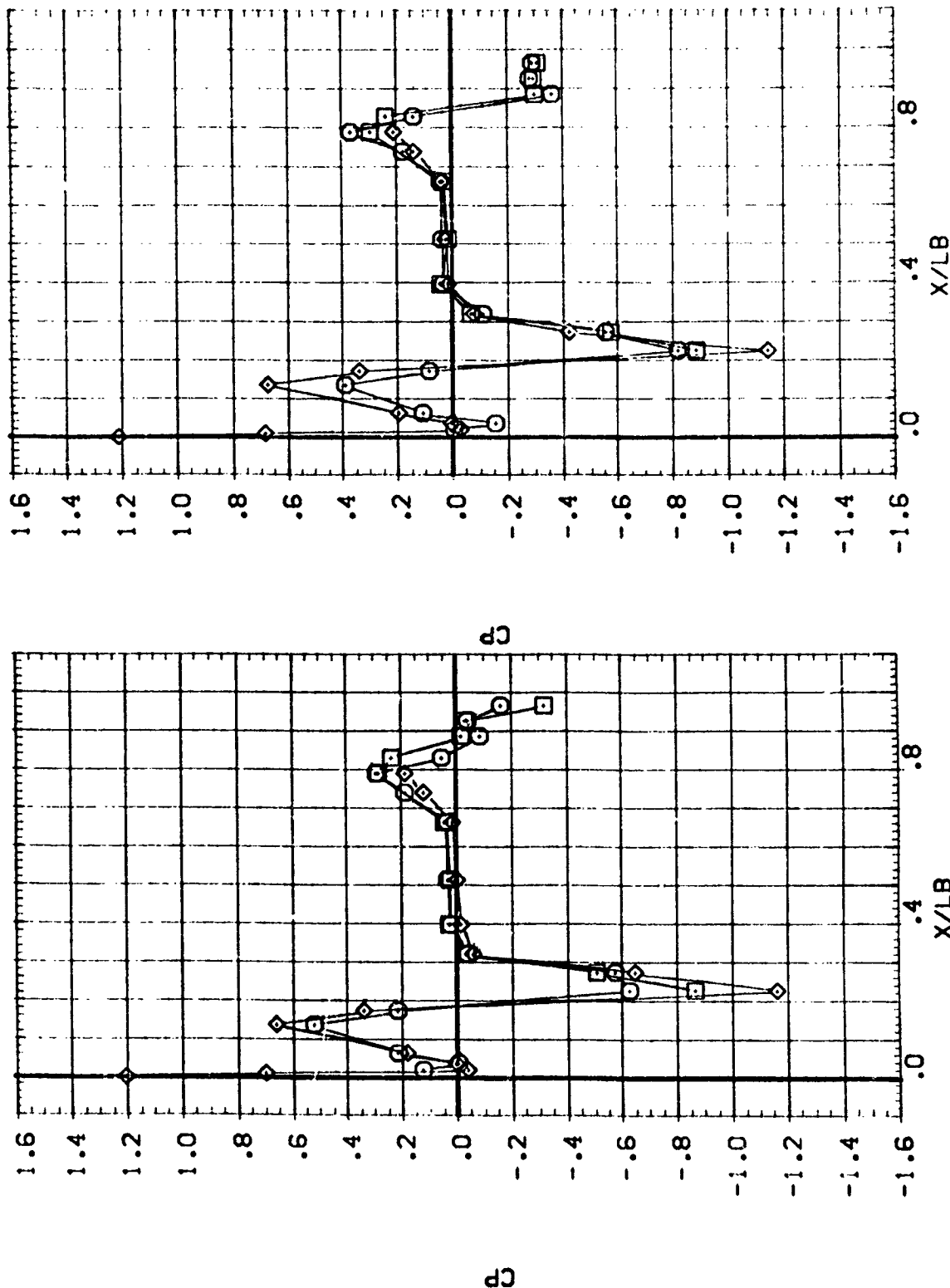
PARAMETRIC VALUES
 ALPHAT -4.00C
 RUDDER .000
 RUDDLR .000
 ORBITC .500
 ELEVON .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AVES 11-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (RBMB05)

SV=90.	ALPHAT	PARAMETRIC VALUES
150.000	RUDDER	-4.000
165.000	RUDFLR	.000
180.000		.000
		.500
		.000

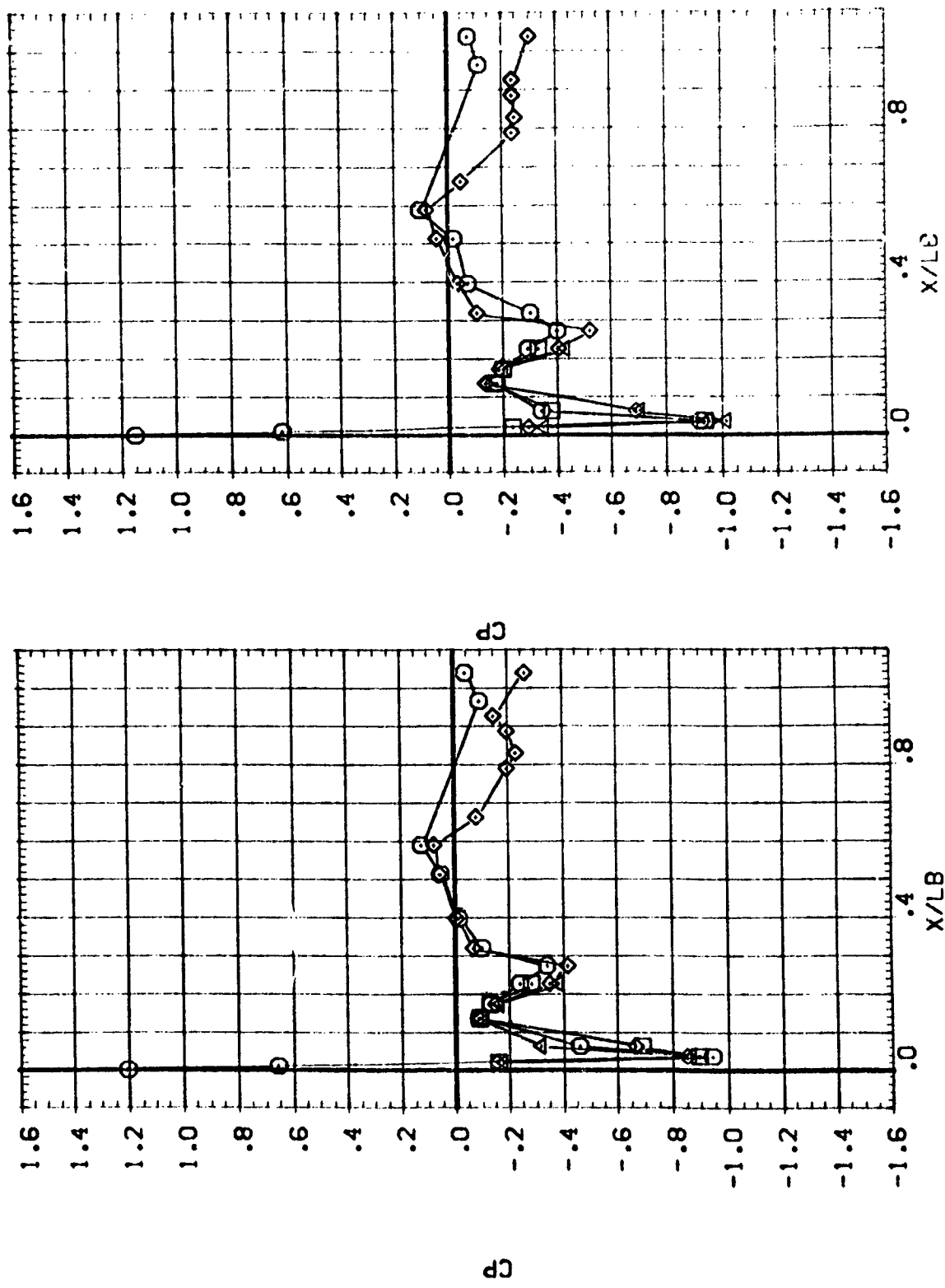


LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

PARAMETRIC VALUES
 ALPHAT -4.000 ORBINC .500
 RUDDER .000 ELEVON .000
 RUJFLR .000

PHI: .000 MACH .900
 20.000
 40.000
 55.000

SYMBOL
 O
 □
 ◇
 △



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES



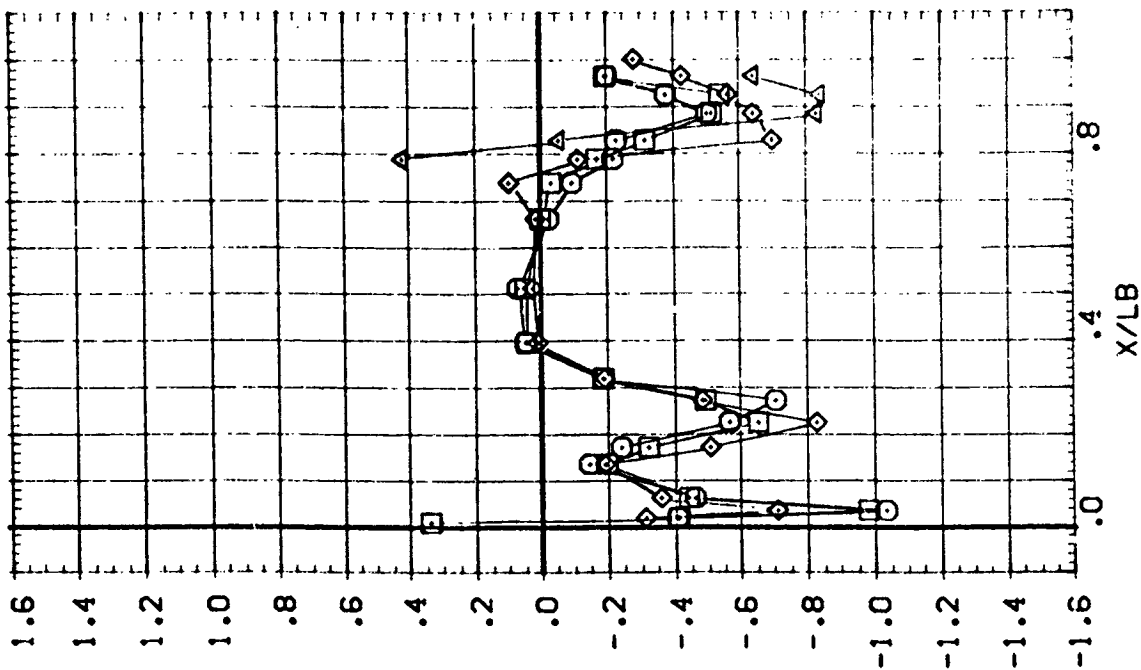
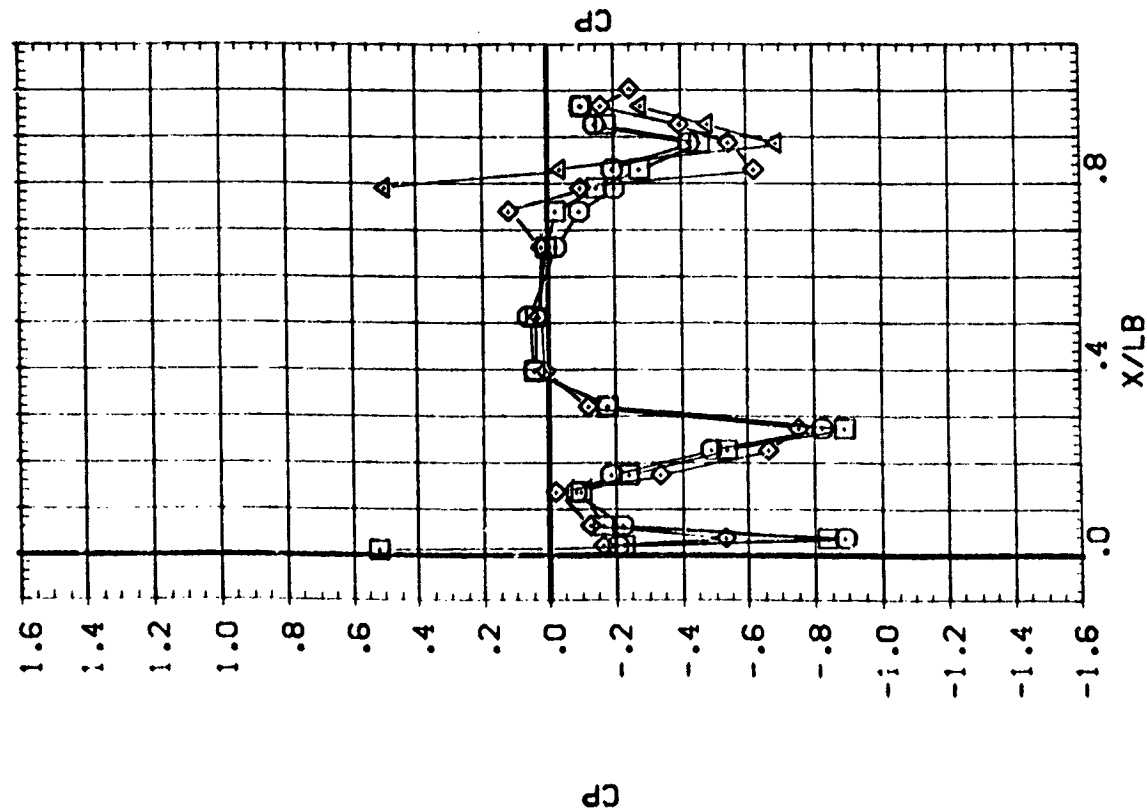
AVES 11-707 1A9 32A + S3 + T9 ORBITER FUSELAGE (RBMB05)

SYNCH-
 70.000
 90.000
 120.000
 135.000

BETAT
 4.1
 8.1

MACH
 .900

PARAMETRIC VALUES
 ALPHAT
 RUDDER
 RJDFLR
 -4.000
 .000
 .000
 .500
 .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES



AMES 11-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (RBMB05)

SYMBOL
O
□
◇

PAI
150.000
165.000
180.000

BETAT
4.120
8.230

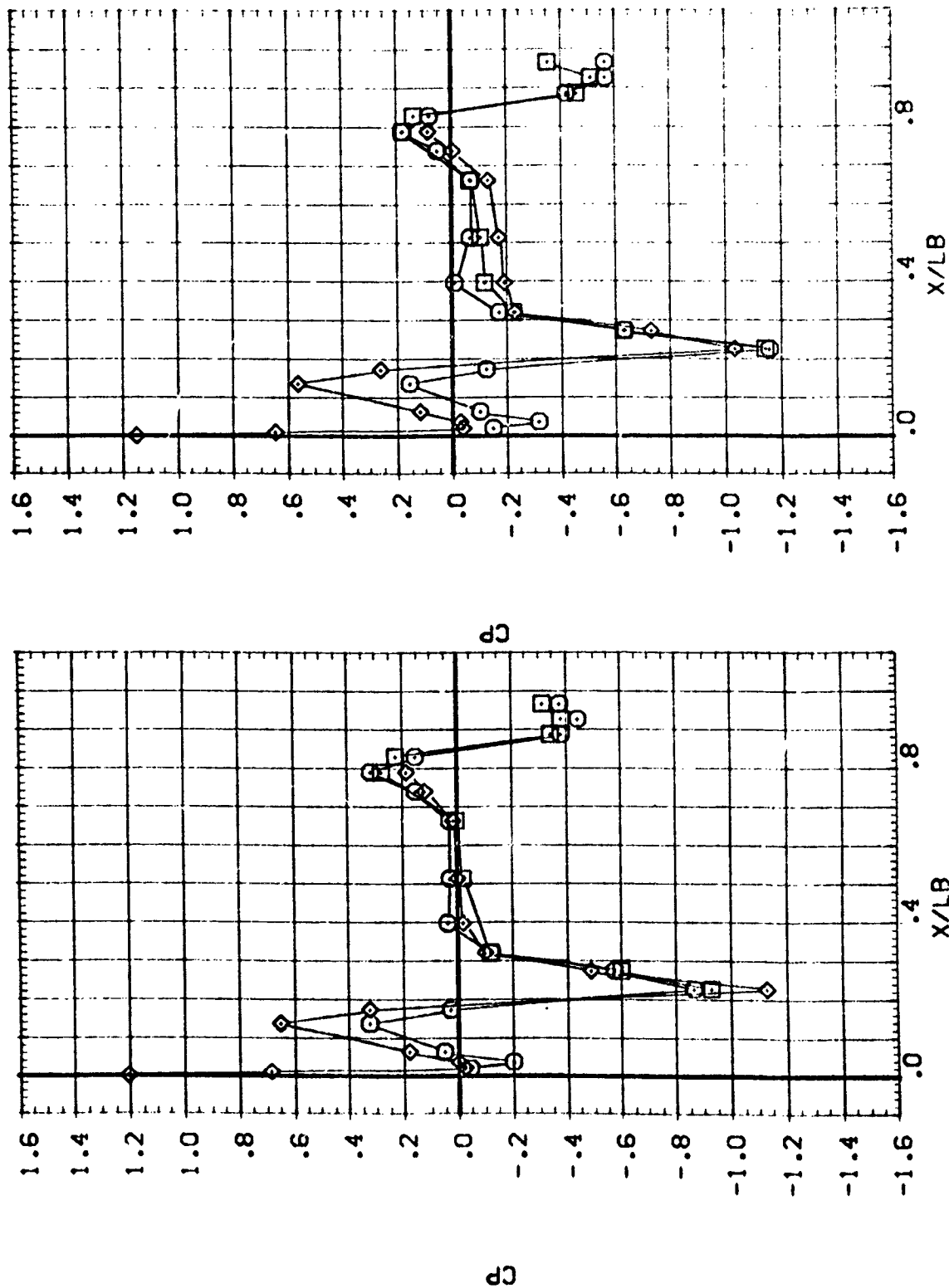
MACH
.900

PARAMETRIC VALUES

ALPHAT
RJODER
RJOFIR

-4.000
.000
.000

ORBITNC
ELEVCH
.500
.000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES



AMES 11-707 (A9 02A + S3 + T9 ORBITER FUSLLAGE (RBMB05)

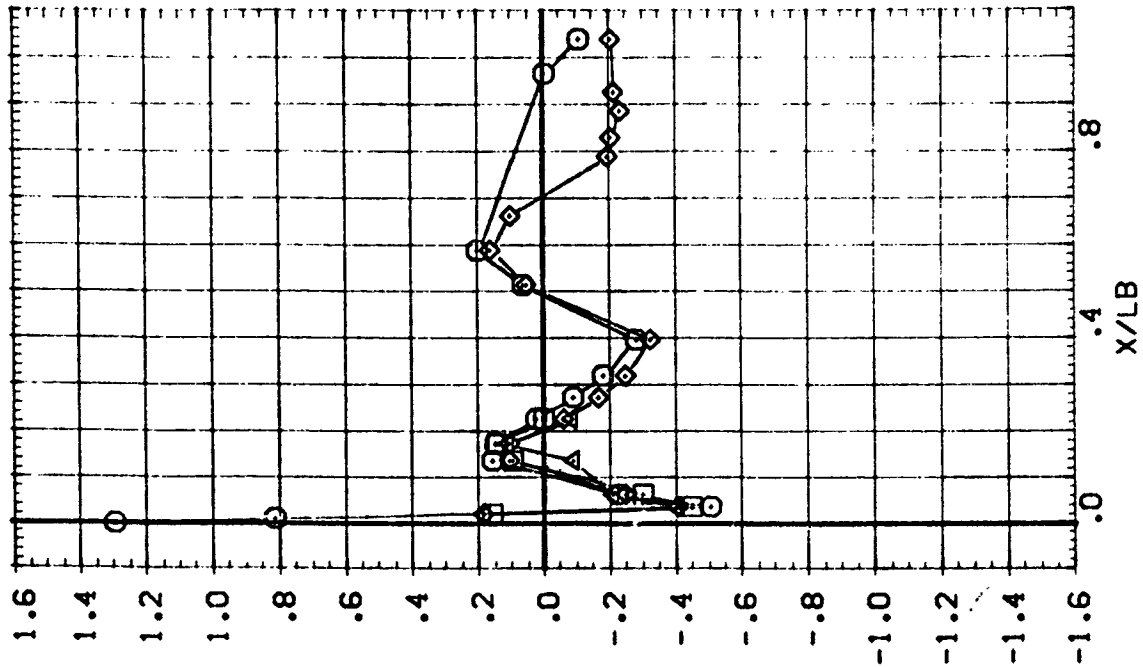
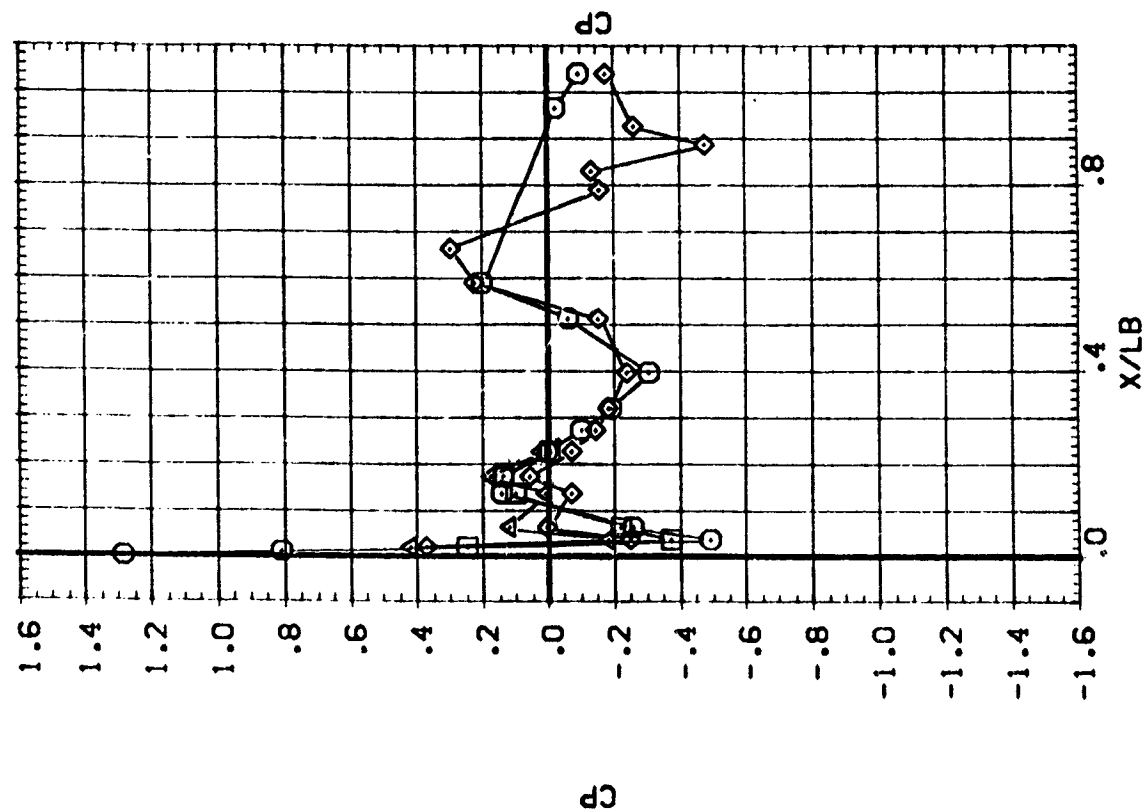
SYMBOL
○ □ ◇ △

PHI
.000
20.000
40.000
55.000

BETAT
-4.280
2.080

MACH
1.100

PARAMETRIC VALUES
ALPHAT
R.00ER
R.00FLR
-4.000
.000
.000
ORBITC
ELEVON
.500
.000



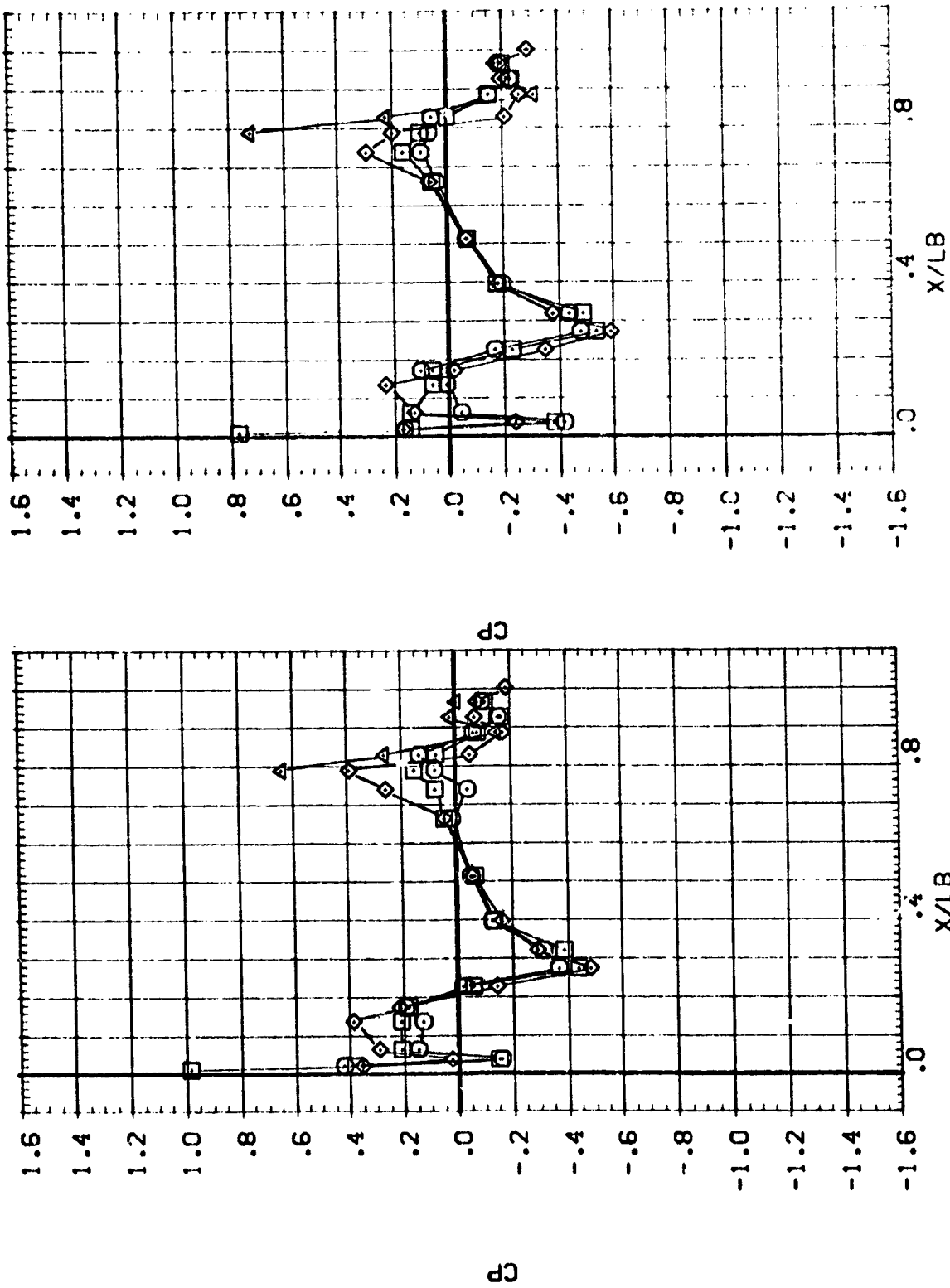
LONGITUDINAL DISTRIBUTION OF ORBITER FUSelage PRESSURES

AMES 11-707 1A9 C2A + S3 + T9 ORBITER FUSELAGE (RBMB05)

SYMBOL
 ○
 □
 ◇
 △

PM1 BETAT MACH
 70.000 -4.080 1.101
 90.000 2.080
 120.000
 135.000

PARAMETRIC VALUES
 ALPHAT -4.000 ORBINC .500
 RUDDER .000 ELEVEN .000
 RUOTLR .000

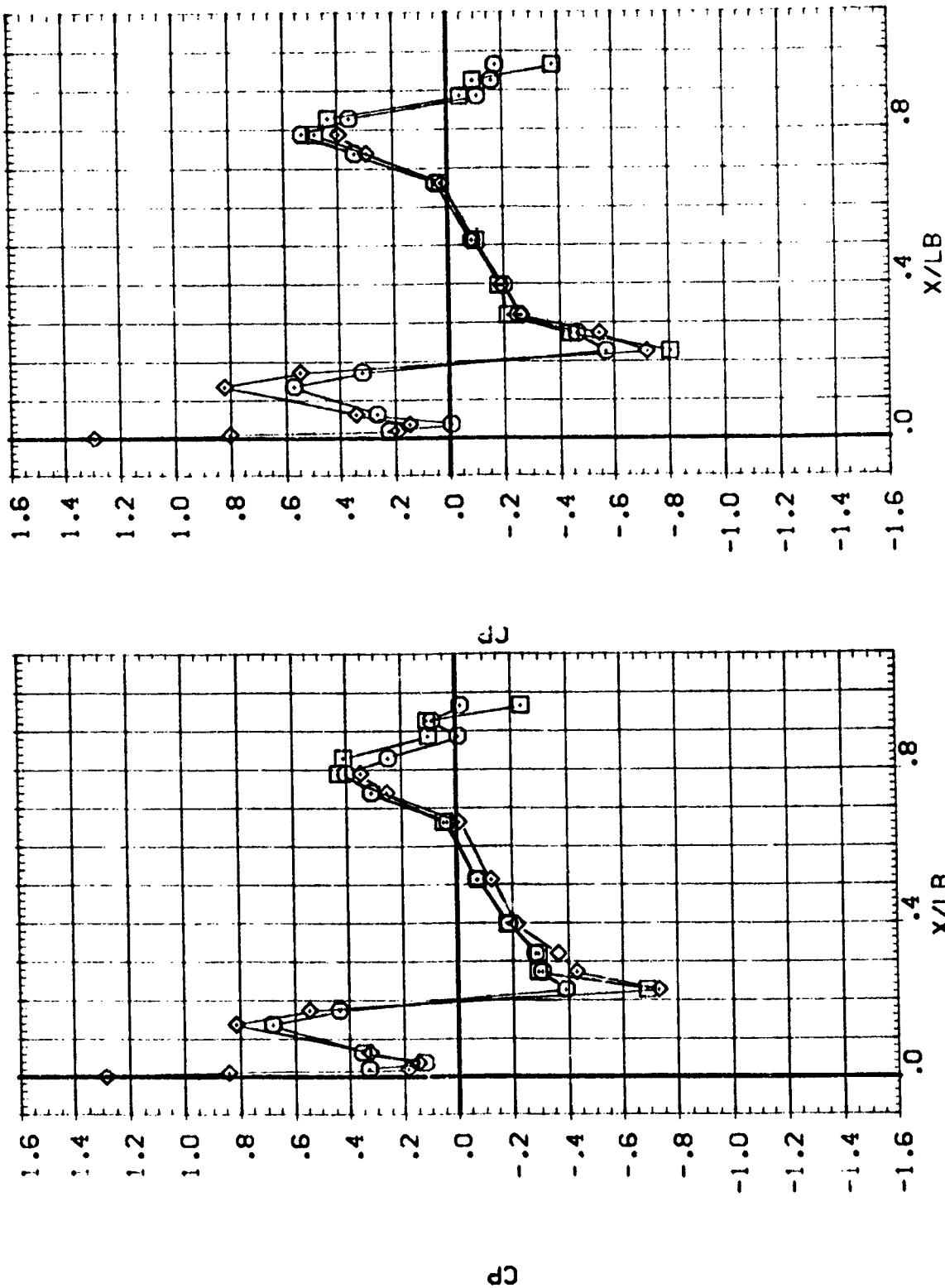


LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES



AVES 11-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (RBMB05)

SYMBOL	PARAMETRIC VALUES
○	ALPHAT -4.000
◇	BETAT -4.080
	MACH 1.100
	ORBIT INC .500
	RJODER .000
	ELEVON .000
	RJDFLR .000

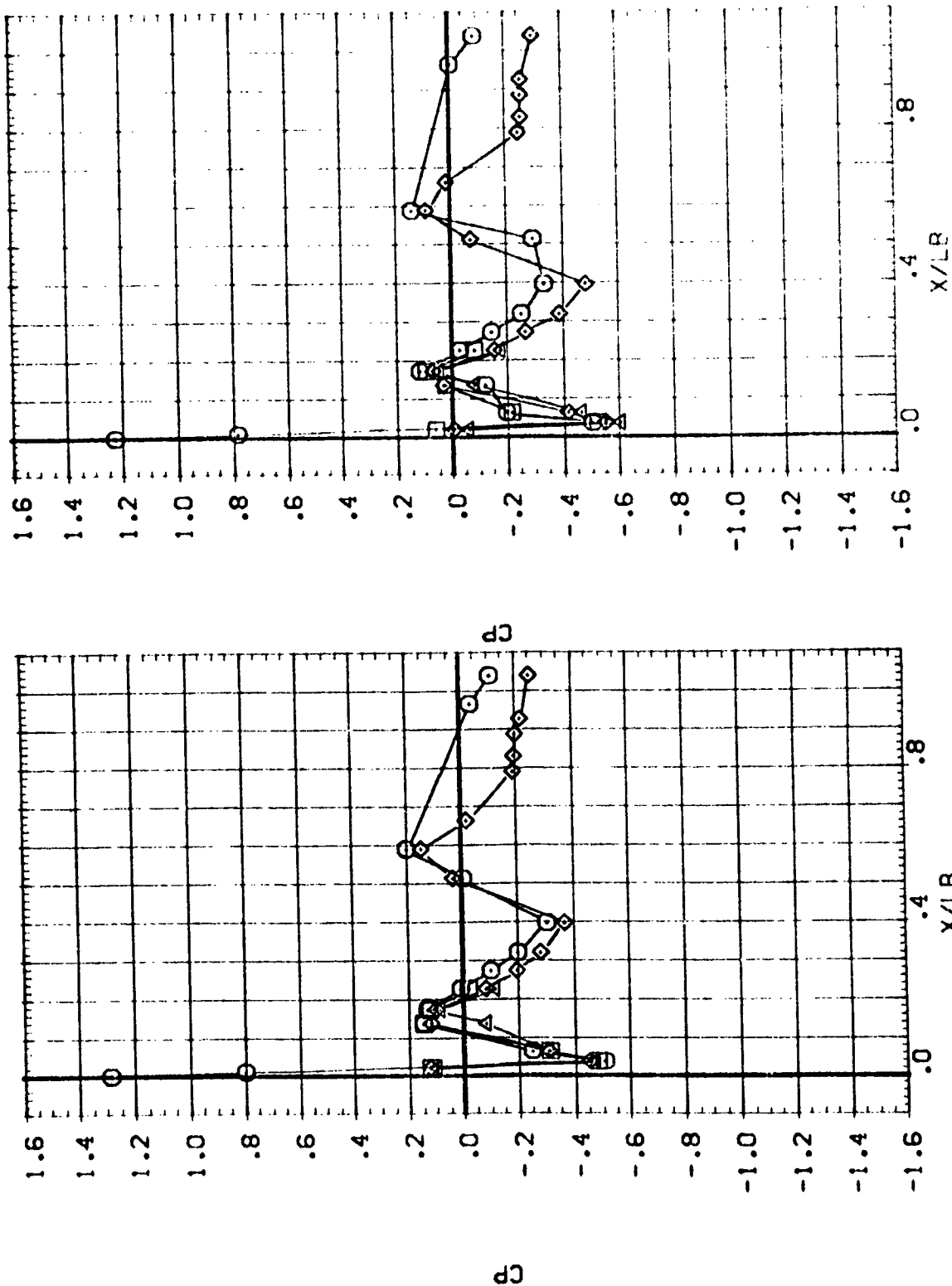


LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES



AMES 11-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (RBM805)

SYMBOL	PM	BETAT	MACH	PARAMETRIC VALUES
○	.000	4.140	1.102	ALPHAT -4.000 ORBITINC .500
□	20.000	8.270		RUDER .000 ELEVEN .000
◇	40.000			RUDFLR .000
△	55.000			

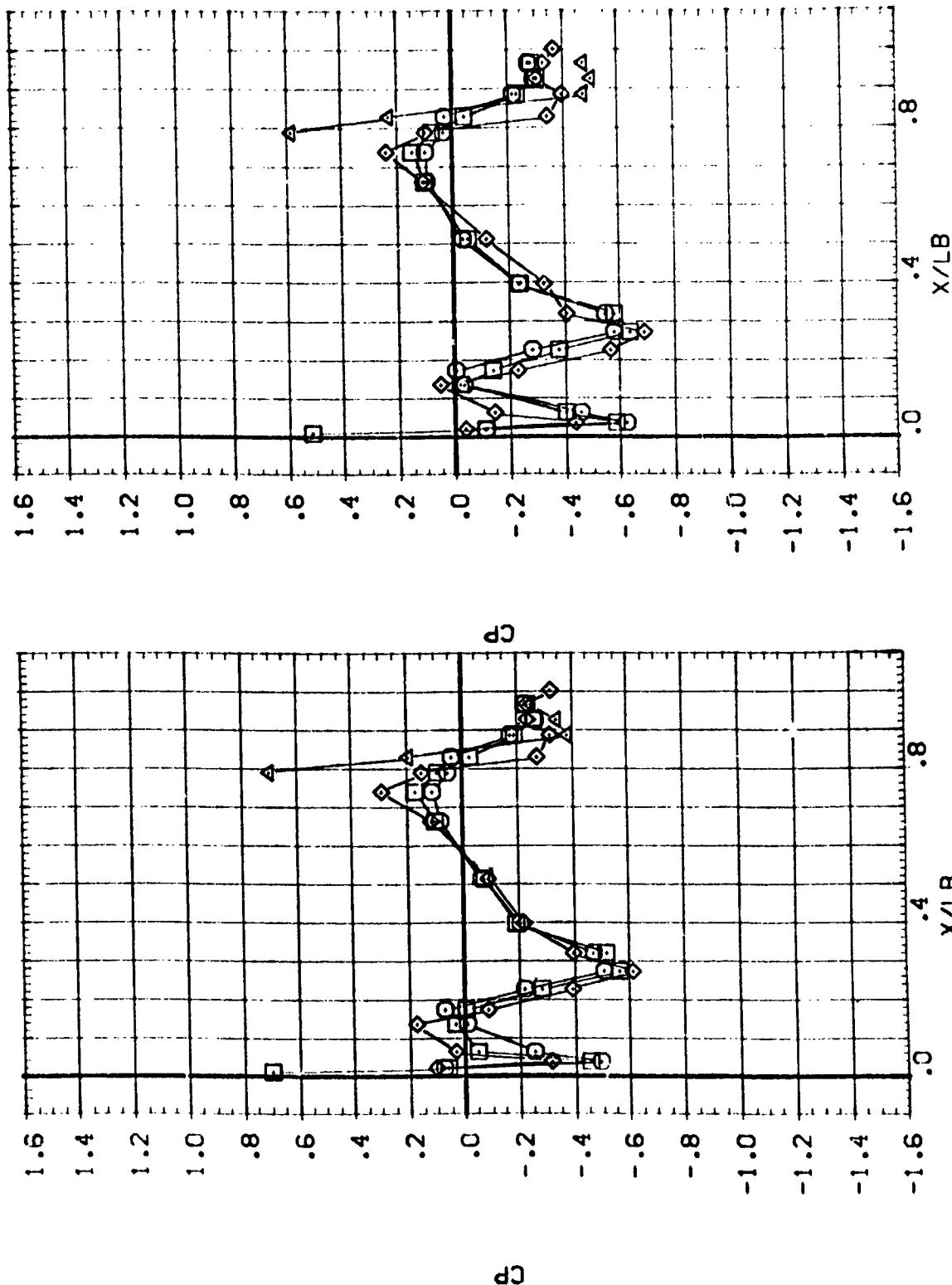


LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES



AVES 1:-707 1A9 C2A + S3 + T9 ORBITER FUSELAGE (RBM805)

SYMBOL	PM	SECT	MACH	PARAMETRIC VALUES	
70.000	4.140	1.102	ALPHAT	-4.000	
80.000	8.270		RUDER	.000	
120.000			RUDFLR	.000	
135.000				ORBITC	.500
				ELEVON	.000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

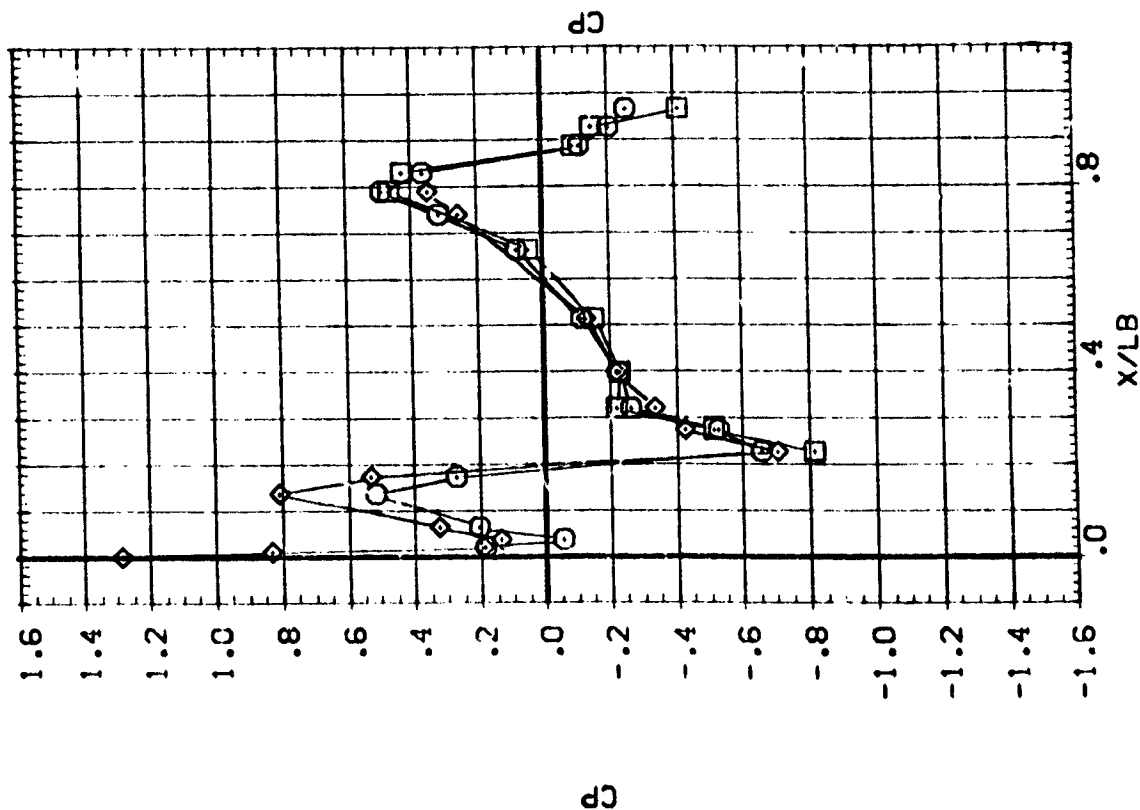
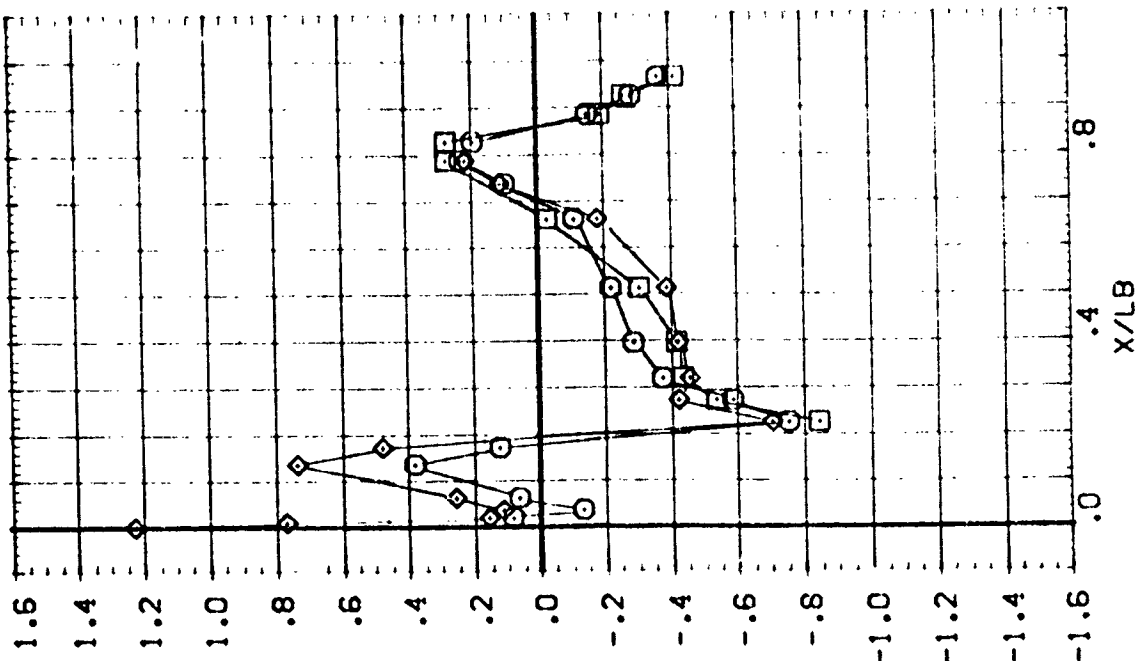


AMES 11-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (RBMB05)

SYMBOL
○ □ ◇

PHI BETAT MACH
150.000 4.140 1.102
165.000 8.270
180.000

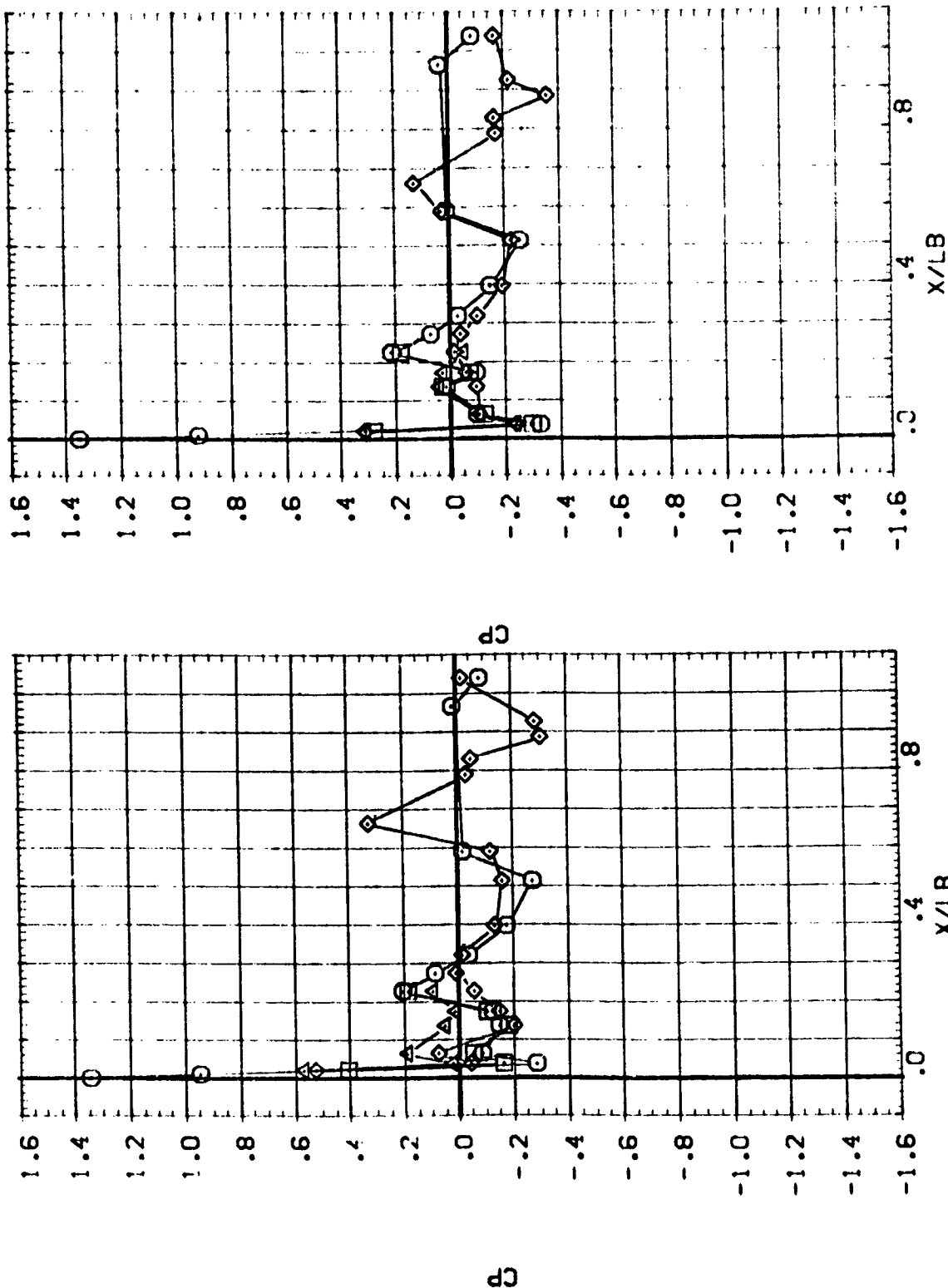
PARAMETRIC VALUES
ALPHAT -4.000 ORBINC .500
RUDDER .000 ELEVON .000
RUOFLR .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AVES 11-7C7 1A9 32A + S3 + T9 ORBITER FUSELAGE (RBM805)

SYMBOL	PM:	BETAY	MACH	PARAMETRIC VALUES		
	.000	-4.560	1.245	ALPHAT	-4.000	
	20.000	2.060		CRBINC	.500	
	40.000			RUDDER	.000	
	55.000			RUDFLR	.000	
					ELEVON	.000



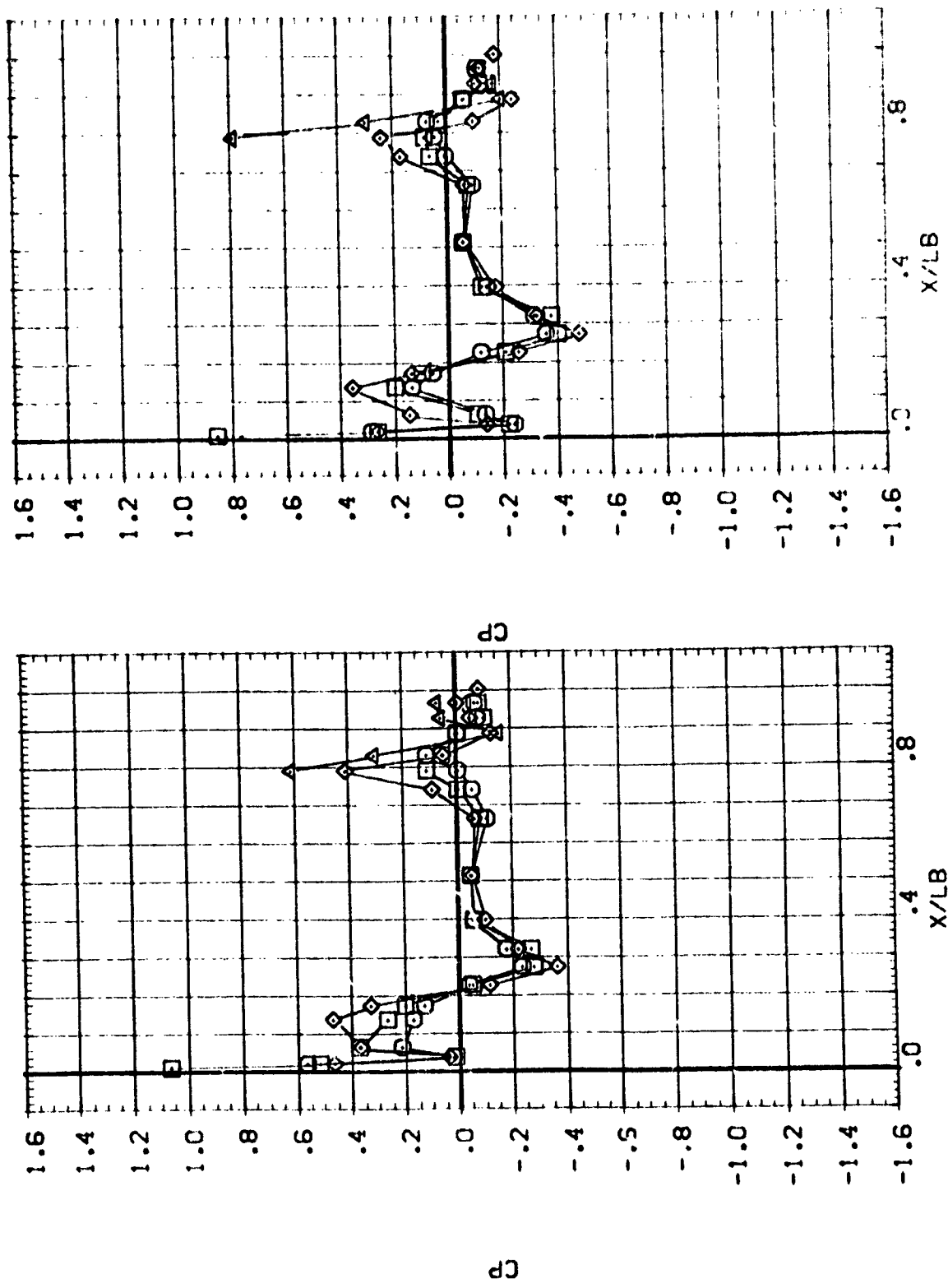
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES



AMES 11-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (RMB05)

SYMBOL	PARAMETRIC VALUES	
	ALPHAT	ORBITAL
□	-4.000	.000
◇	.000	.000
△	.000	.000

PHI 70.000
BETAT -4.060
MACH 1.245
90.000
120.000
135.000

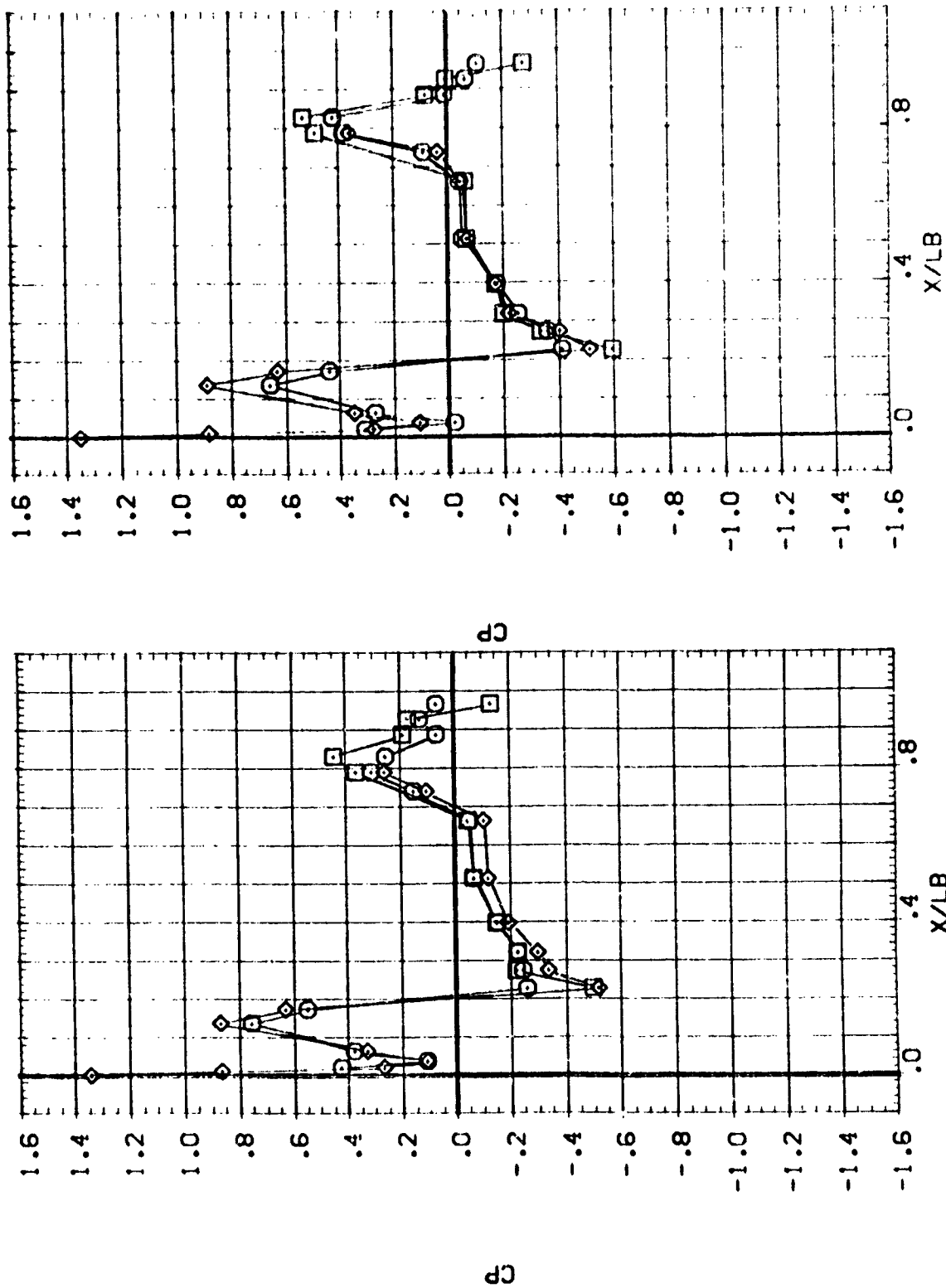


LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES



AVES :: -707 :A9 C2A - S3 + T9 ORBITER FUSELAGE (RBM805)

SYNDC	PHI	BETAT	MACH	PARAMETRIC VALUES
OLIO	150.000	-4.060	1.245	ALPHAT
	165.000	2.060		RUDDER
	180.000			RUDFLR
				-4.000
				.000
				.000
				.000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

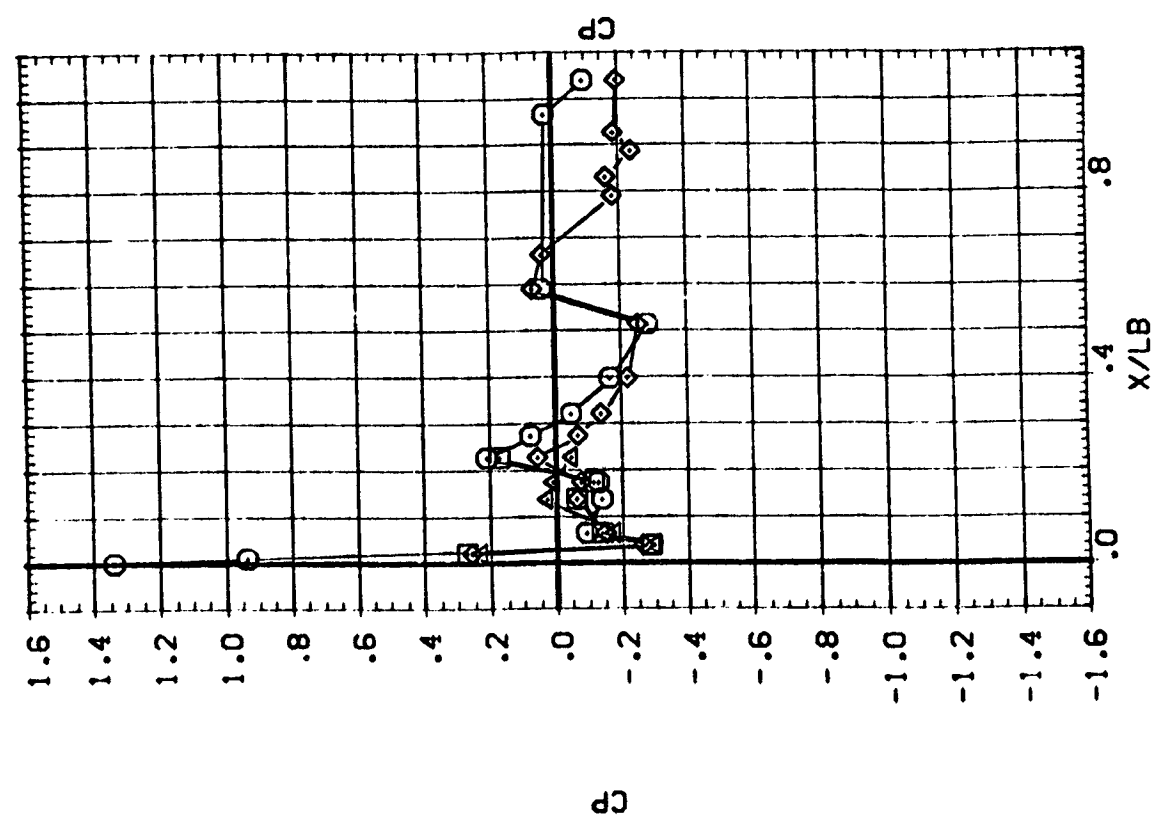
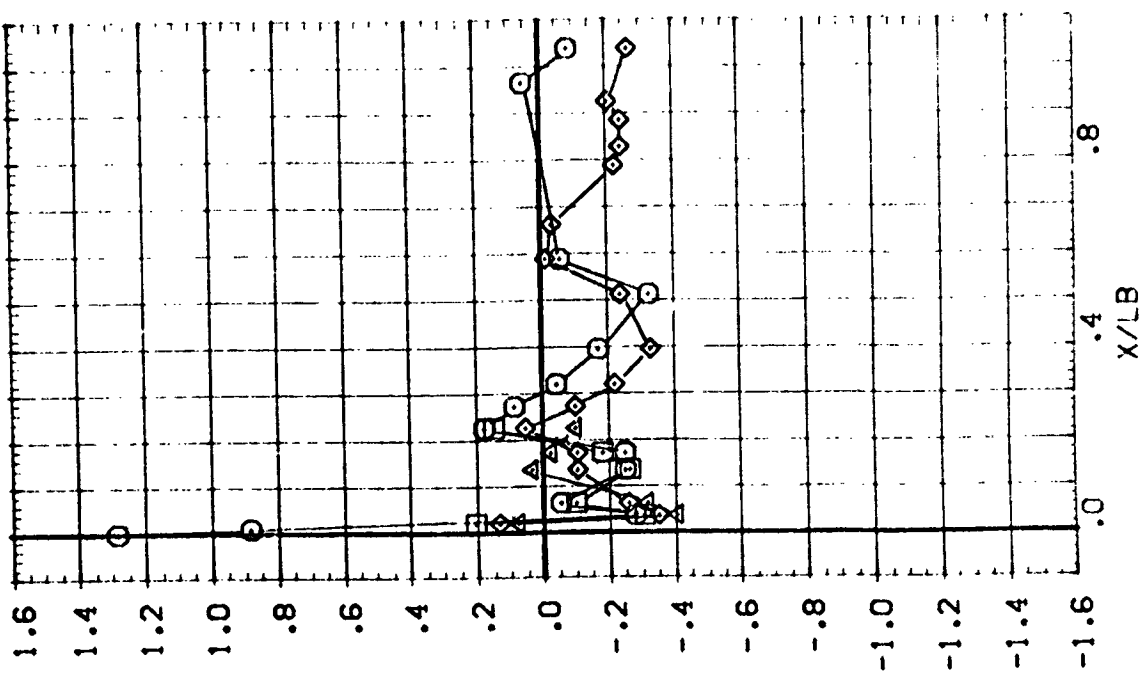
SYMBOL
O I D A

PHI: .000
22.000
40.000
55.000

BETAT
4.120
8.210

MACH
1.241

PARAMETRIC VALUES
ALPHAT -4.000
RUDDER .000
RUDFLR .000
DRGINC .500
ELEVCH .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

SYMBOL
 ○
 □
 ◇
 △

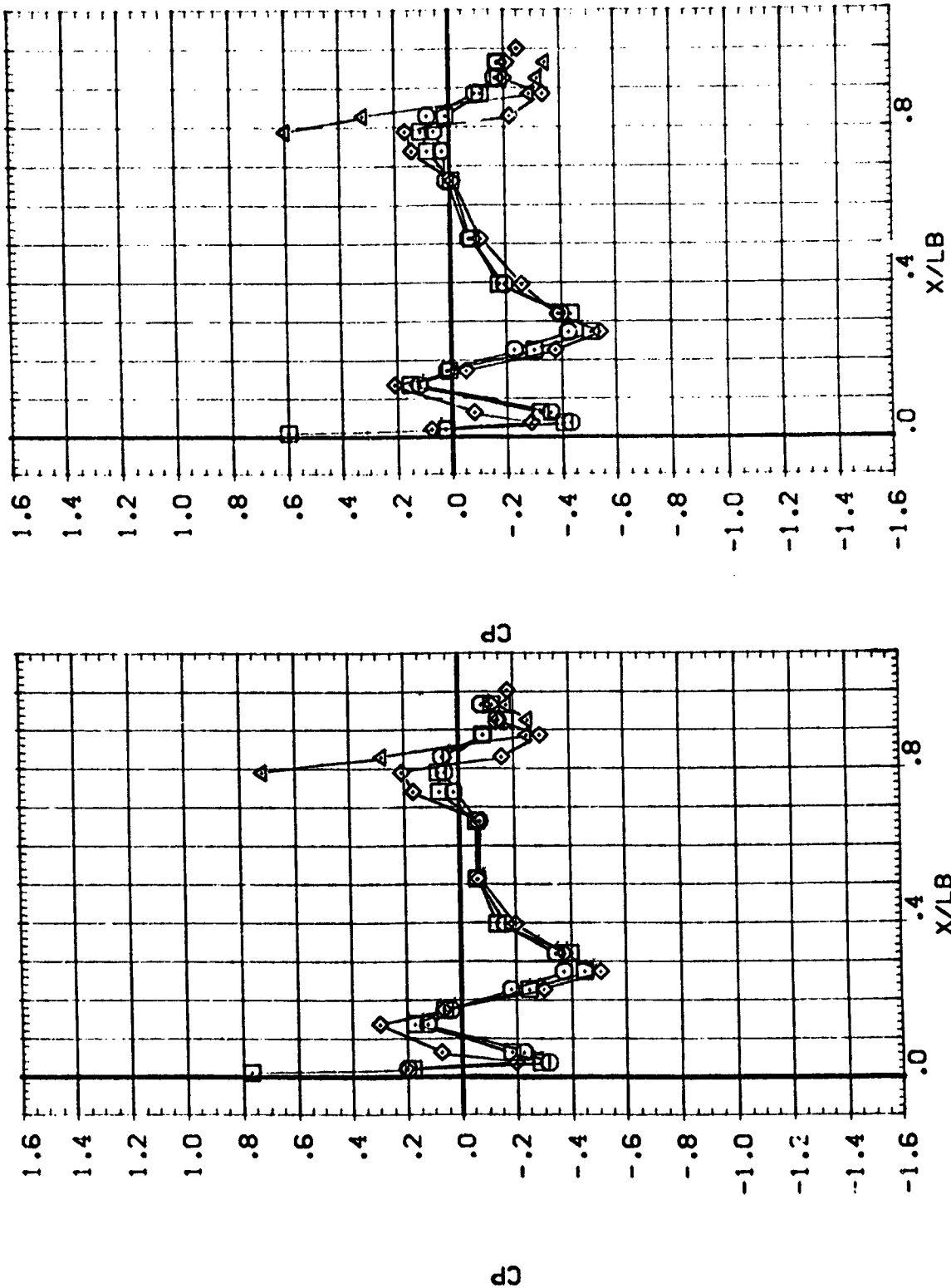
PHI 70.000
 90.000
 120.000
 135.000

BETAT 4.120
 8.210

MACH 1.241

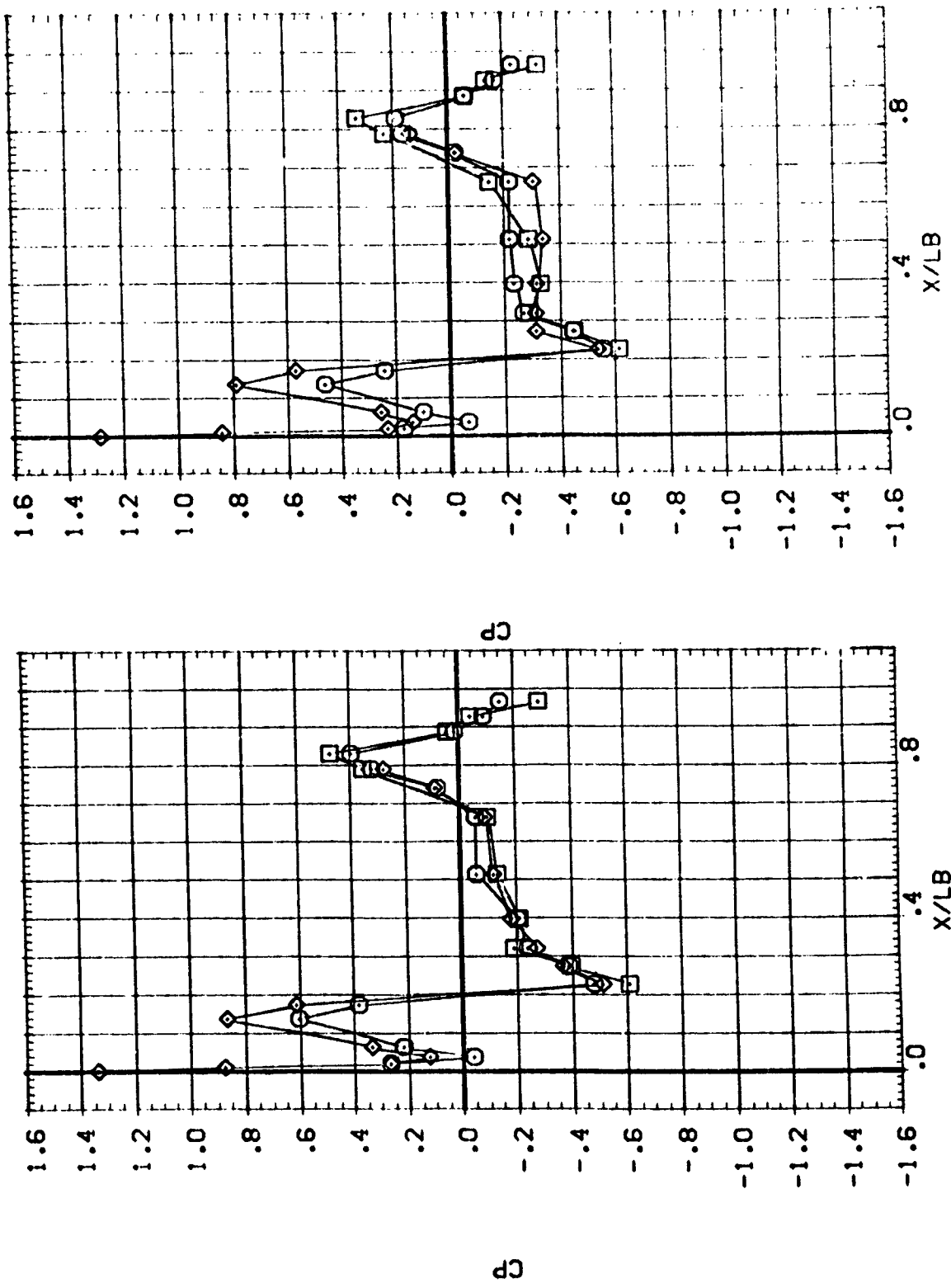
PARAMETRIC VALUES
 ALPHAT -4.000
 RUOER .000
 RUOFLR .000

ORBIT'NC .500
 ELEVON .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

PH:	BETAT	MACH	PARAMETRIC VALUES
:50.000	4.120	1.241	ALPHAT
:65.000	8.210		RUDDER
:80.000			RUDLER
			ORBITINC
			ELEVON



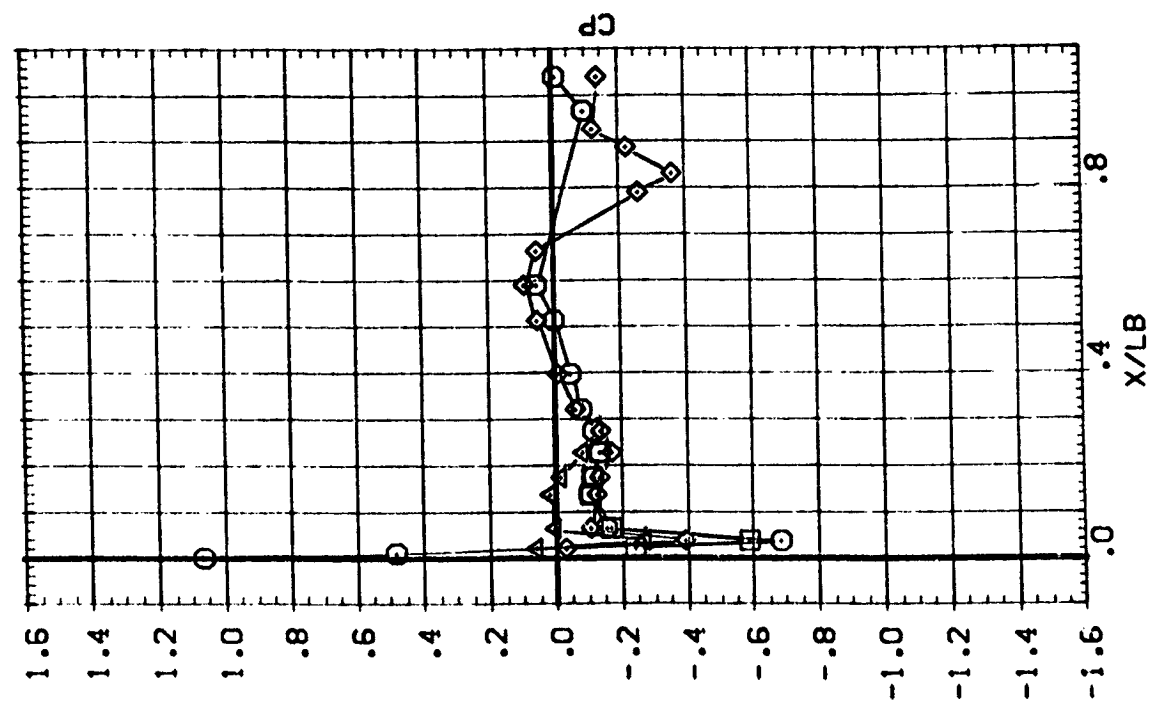
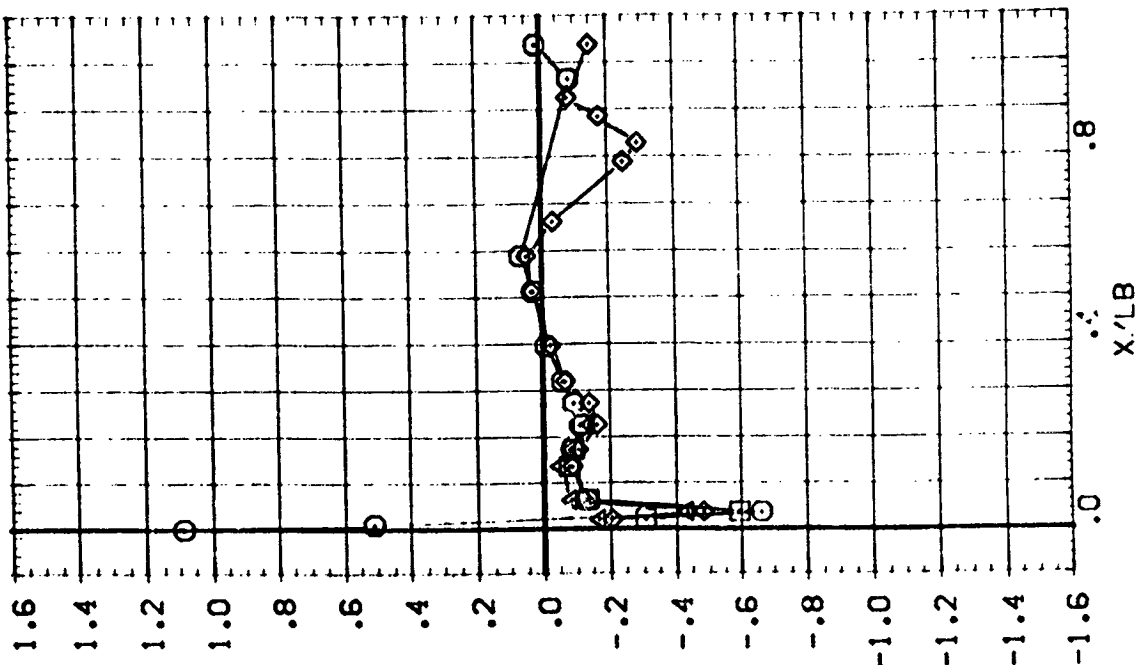
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 11-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (RBMB07)

PARAMETRIC VALUES
 ALPHAT .000 ORBINC .500
 RUDER .000 ELEVEN .000
 RUFLR .000

SYMBOL
 P-1
 .000
 20.000
 40.000
 55.000

BETAT MACH
 -4.050 .598
 .020

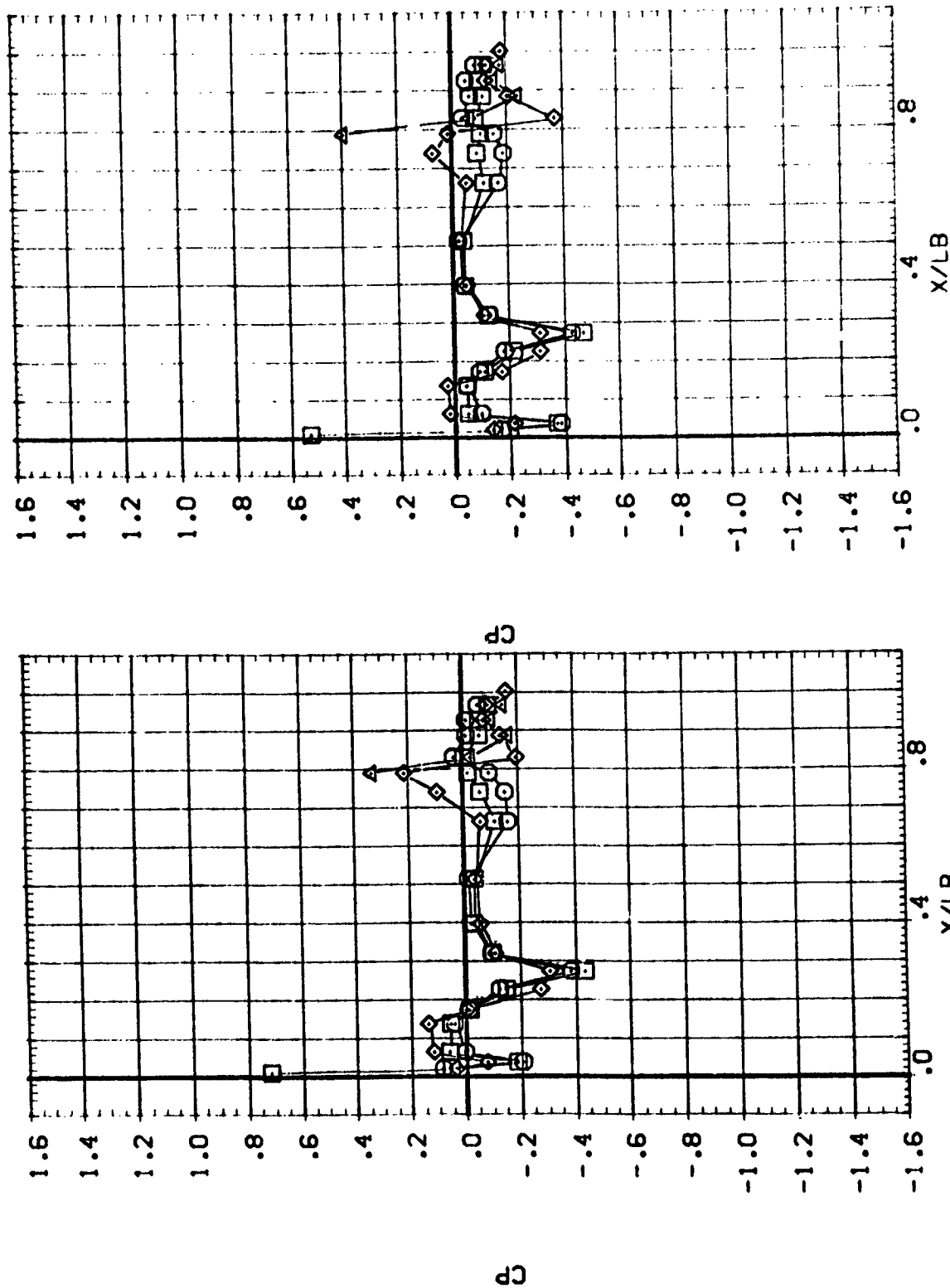


LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

SYMBOL
 ○ □ ◇ △

PM1 BETAL MACH
 70.000 -4.050 .598
 90.000 .020
 120.000
 135.000

PARAMETRIC VALUES
 ALPHAT .000 ORBINC .500
 RUDDER .000 ELEVON .000
 RADFLR .000

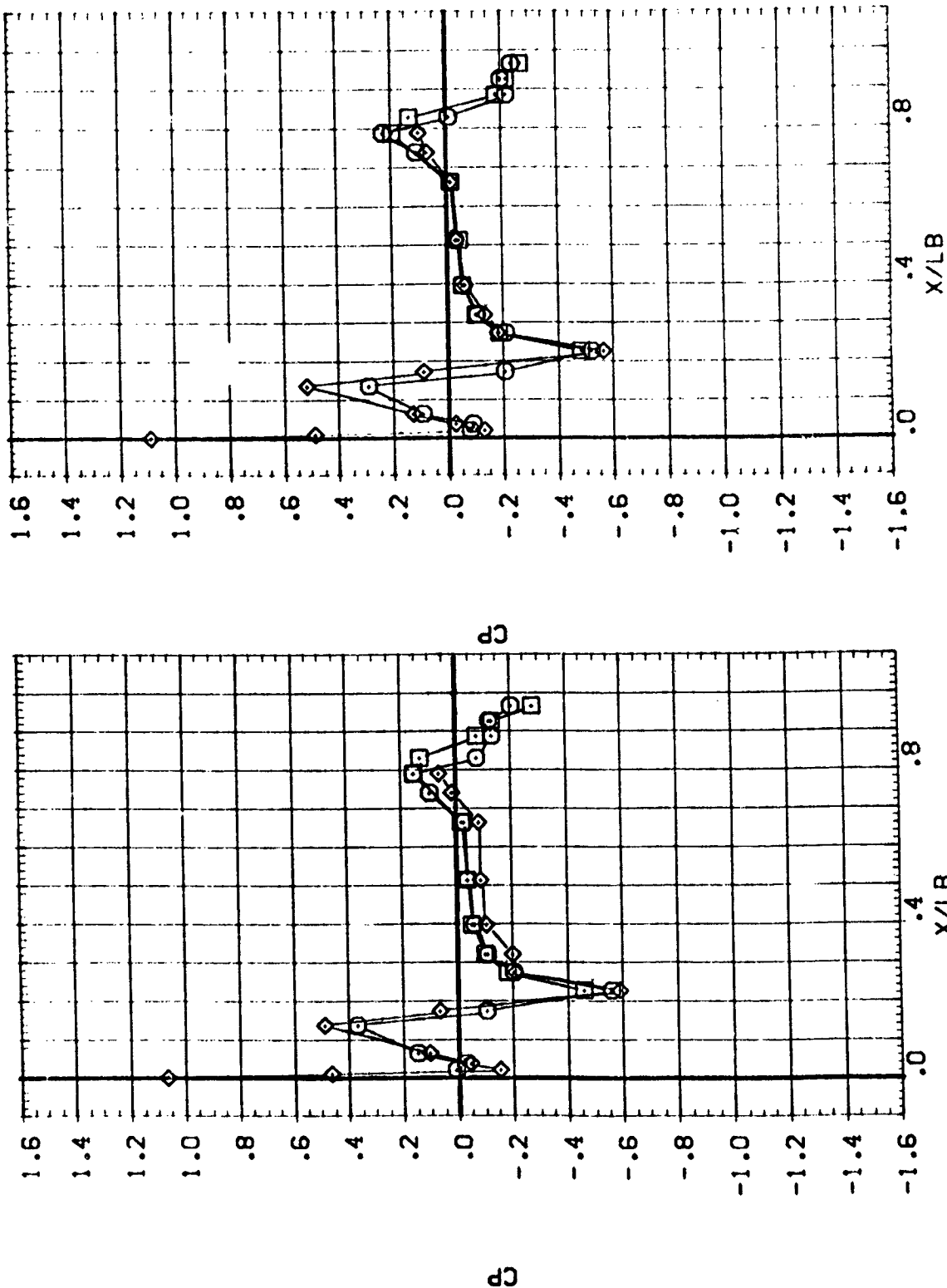


LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

SYMBOL
 ○ 150.000
 □ 165.000
 ◇ 180.000

PHI BETA* MACH
 150.000 -4.050 .598
 165.000 .020
 180.000

PARAMETRIC VALUES
 ALPHAT .000 ORBINC .500
 RUDDER .000 ELEVON .000
 RUDDLR .000



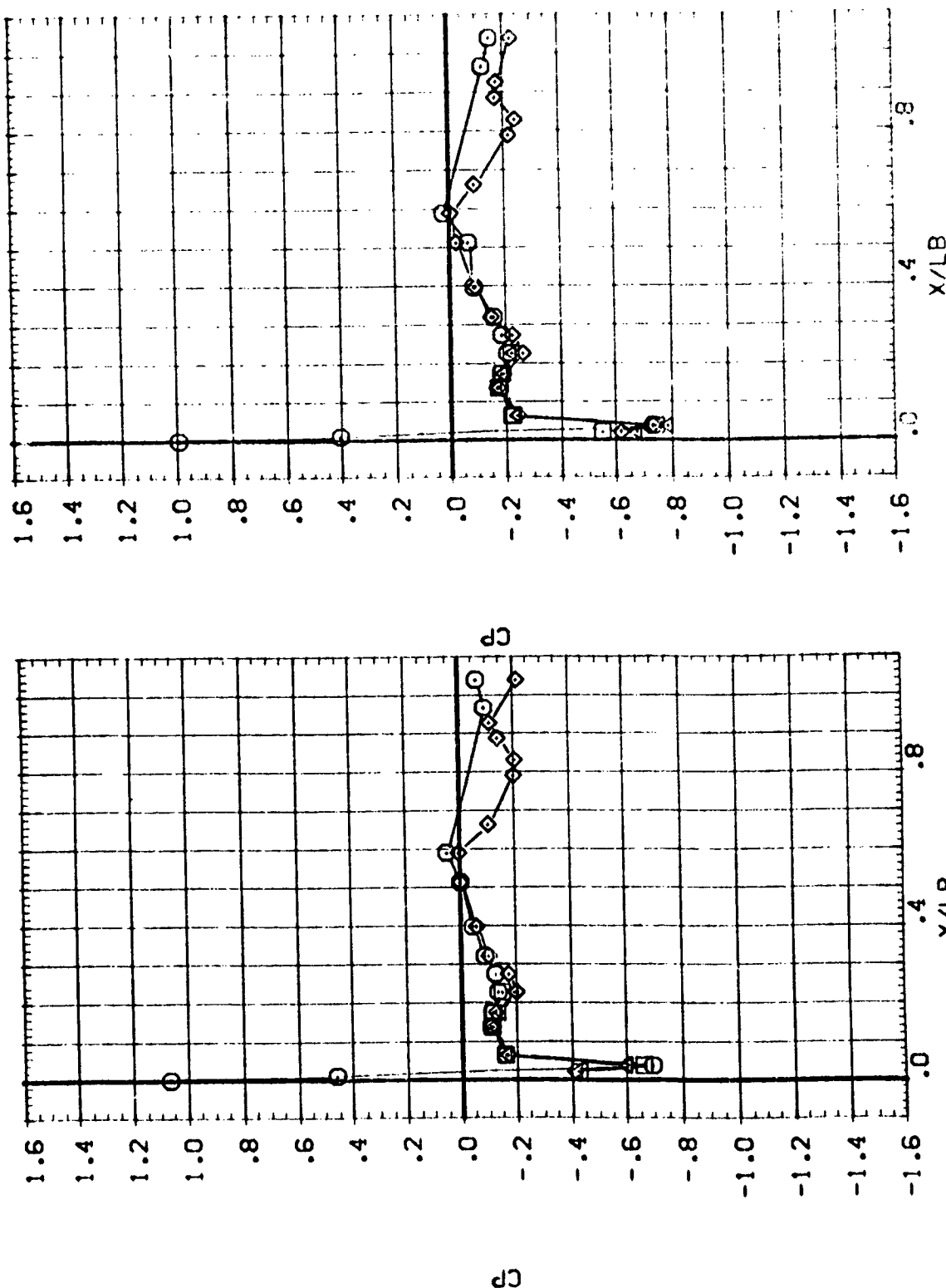
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 11-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (RBMB07)

SYMBOL
 ○ □ ◇ △

PMI BETAT MACH
 .000 4.080 .559
 20.000 8.140
 40.000
 55.000

PARAMETRIC VALUES
 ALPHAT .000 ORBINC .500
 RUDDER .000 ELEVEN .000
 RUJFLR .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

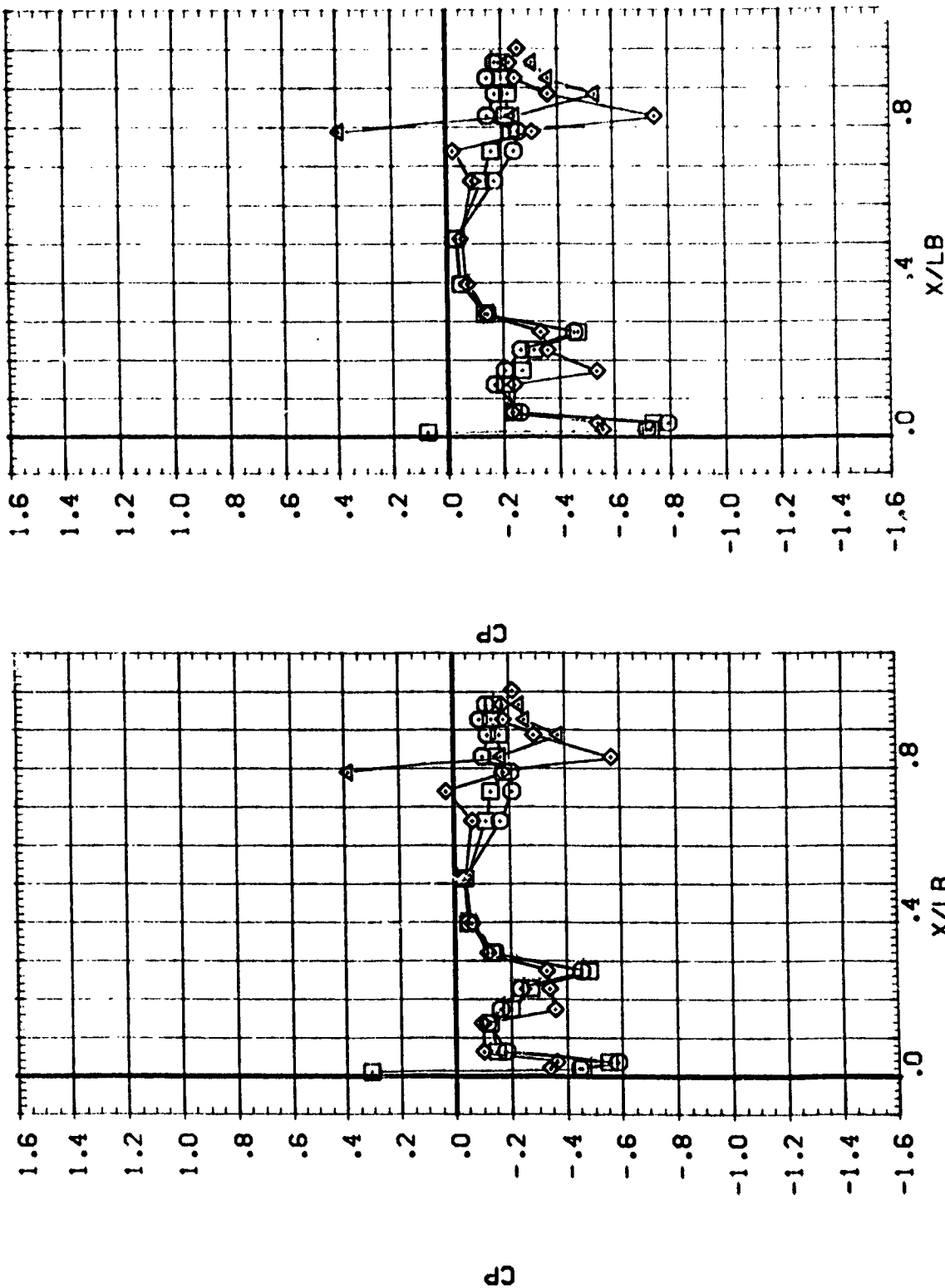


AMES :1-707 1A9 02A + S3 + 19 ORBITER FUSELAGE (RBM007)

SYMBOL
 70.000
 90.000
 120.000
 135.000

BETAT MACH
 4.080 .599
 8.140

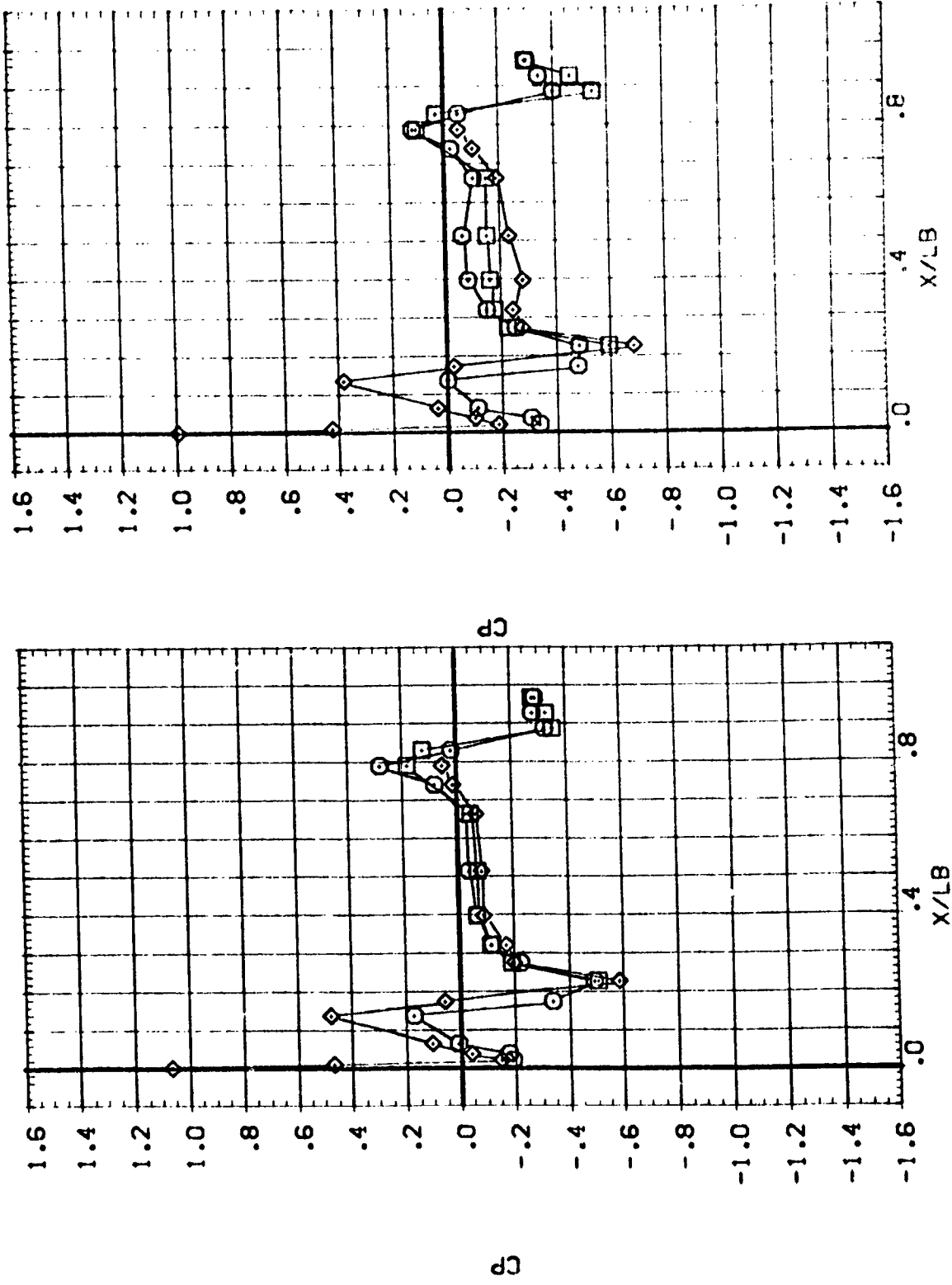
PARAMETRIC VALUES
 ALPHAT .000 CSBINC .500
 RUDDER .000 ELEVON .000
 RUOFLR .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 11-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (RBMB07)

PHI	BETAT	MACH	PARAMETRIC VALUES	
150.000	4.080	.599	ALPHAT	.000
155.000	8.140		RODDE	.000
160.000			RJDFLR	.000
				.000

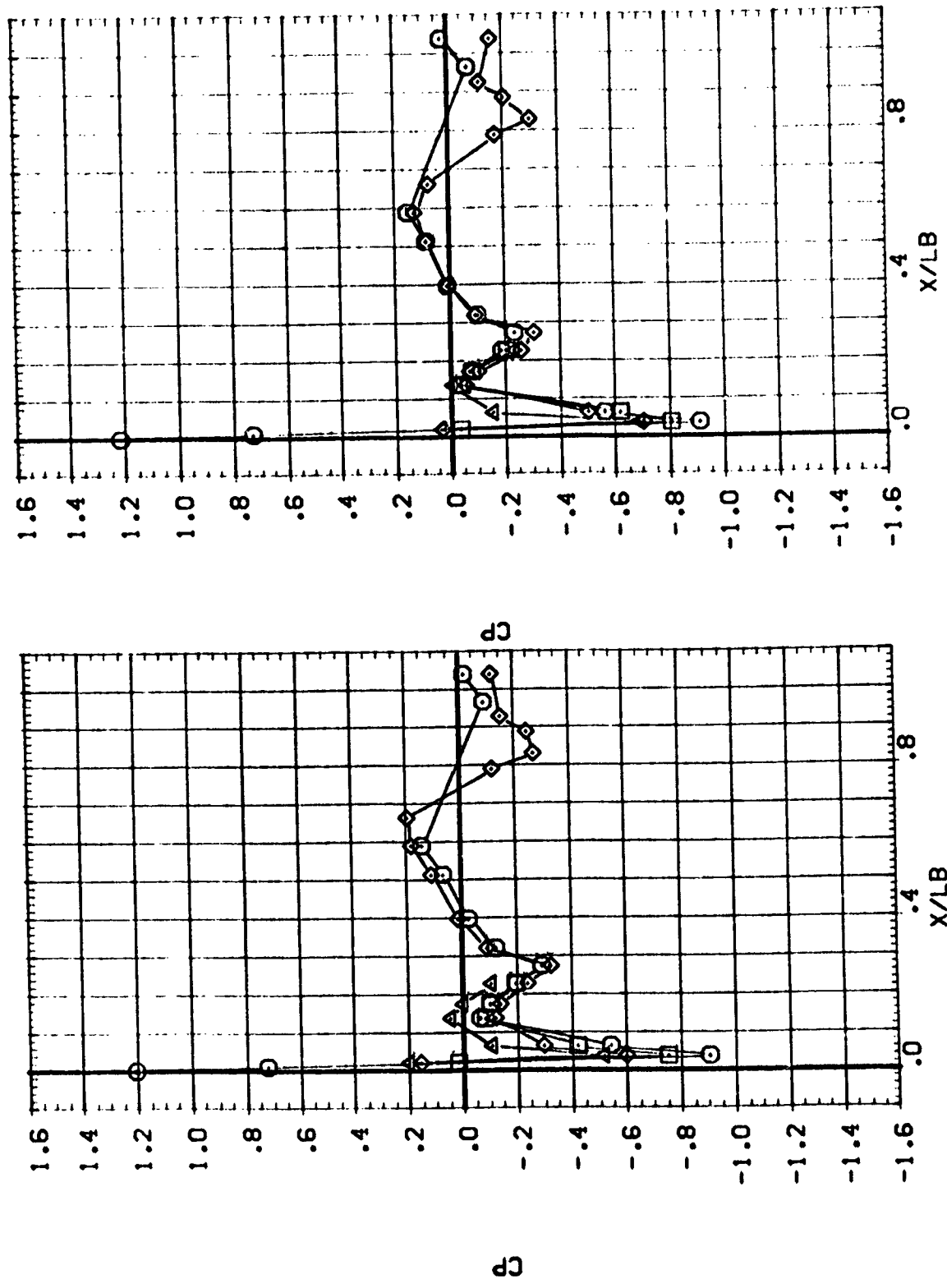


LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES



AVES 11-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (RBMB07)

SYNCH	BETAT	MACH	PARAMETRIC VALUES
0.000	-4.080	.899	ALPHAT .000 ORBINC .500
20.000	.020		RUDER .000 ELEVSN .000
40.000			RUDFLR .000
55.000			



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES



AMES 11-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (RBMB07)

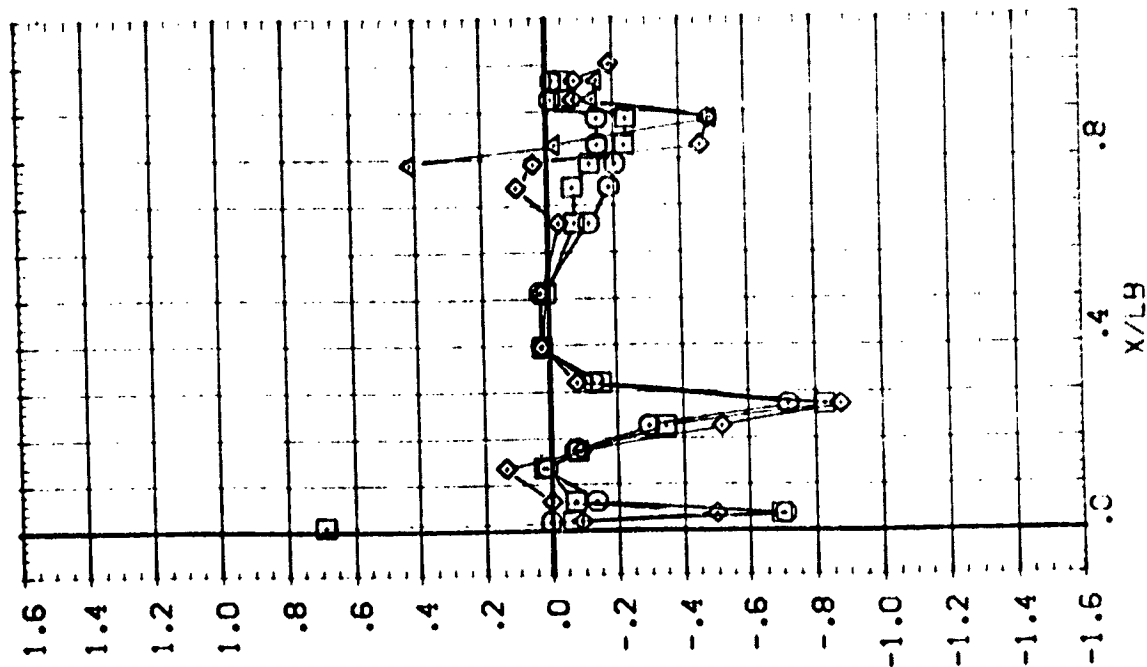
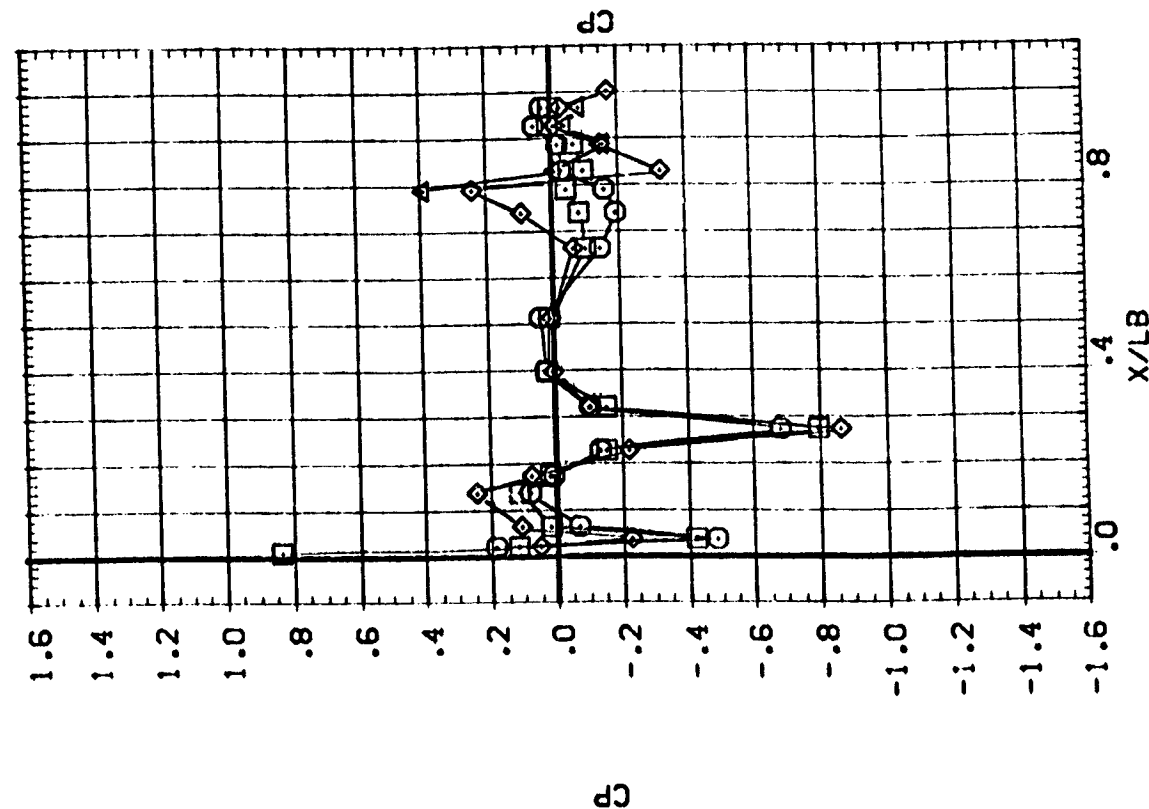
SYMBOL
 O
 I
 Δ

PHI
 70.000
 90.000
 120.000
 135.000

BETAT
 -4.080
 .020

MACH
 .899

PARAMETRIC VALUES
 ALPHA: .000
 RUDER .000
 RUDER .000
 ELEVON .500
 ELEVON .000

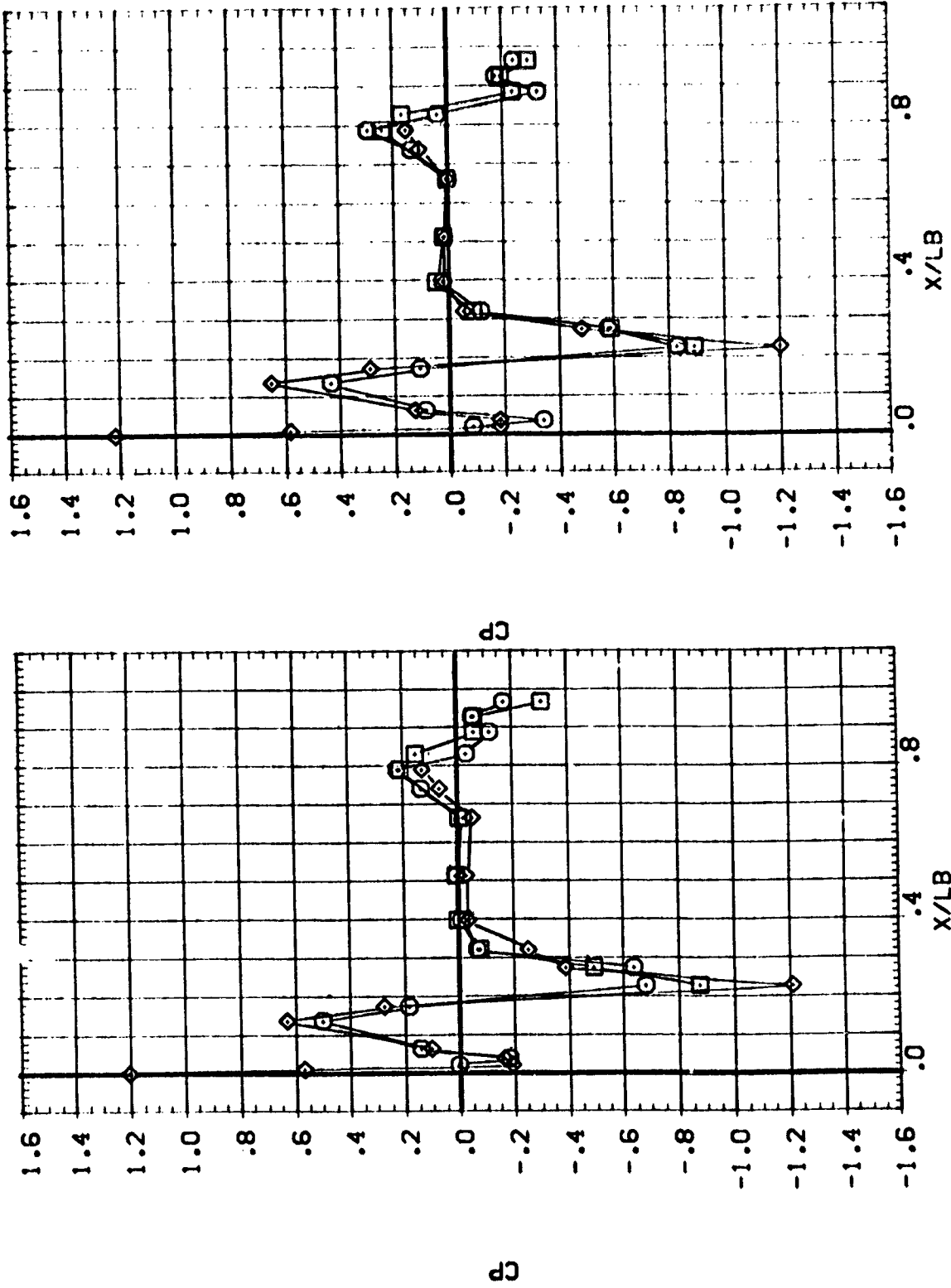


LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES



AVES 11-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (RBM807)

SYMBOL	PHI	BETAT	MACH	PARAMETRIC VALUES		
○	150.000	-4.080	.899	ALPHA7	.000	ORBITING
◇	165.000	.020		RJDDER	.000	ELEVON
◇	180.000			RJDFLR	.000	

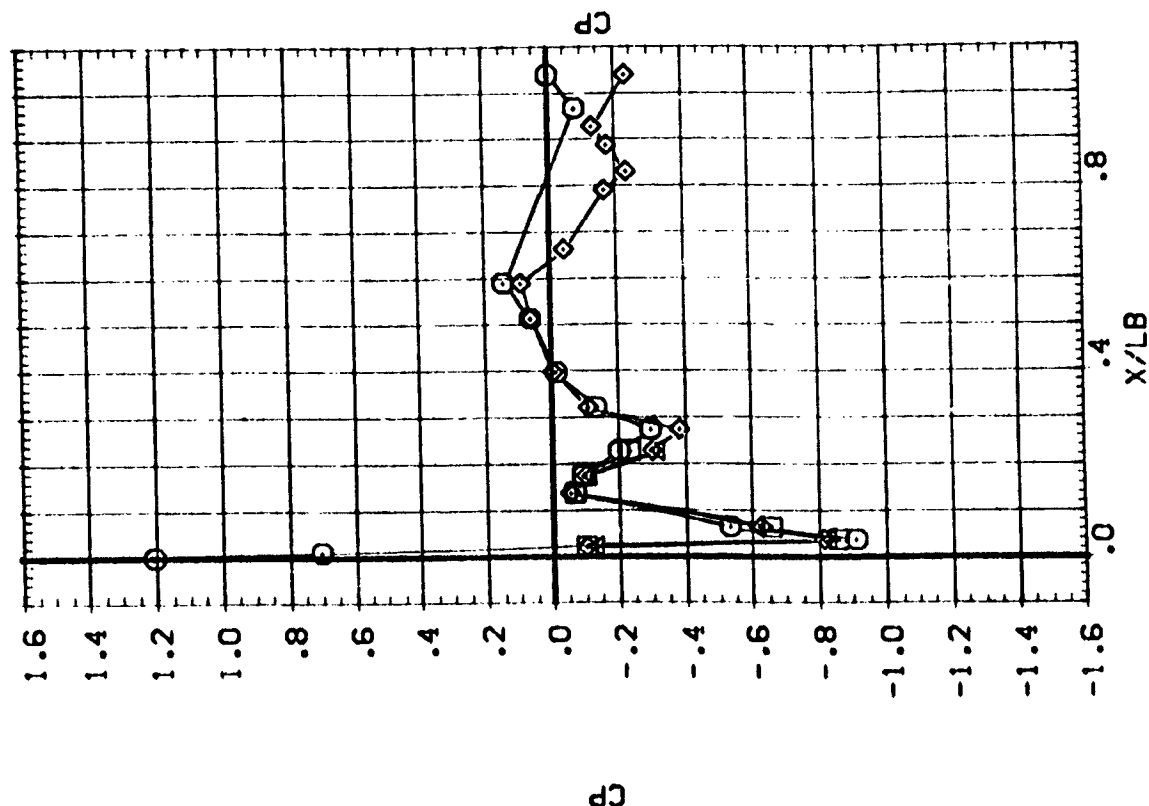
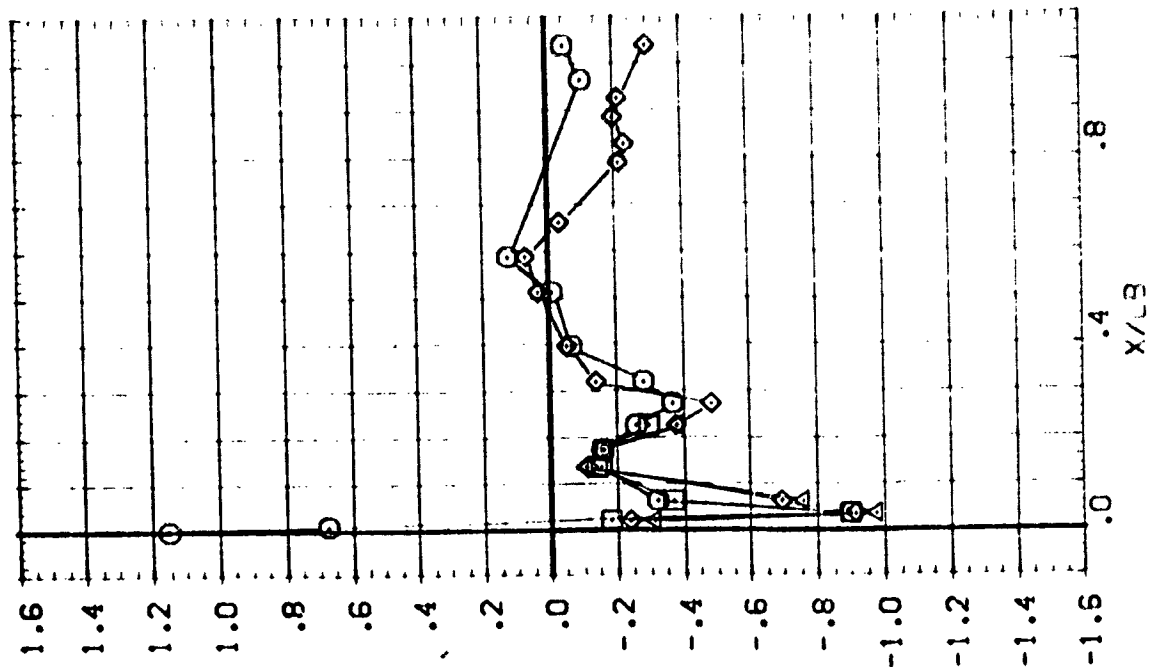


LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 11-707 1A9 C2A + S3 + T9 ORBITER FUSELAGE (RBMB07)

PARAMETRIC VALUES:
 ALPHA 1.000
 RUDER 1.000
 ELEVON 1.000
 RUFLR 1.000

PHI .000
 BETAT 4.120
 MACH .906
 20.000
 40.000
 55.000



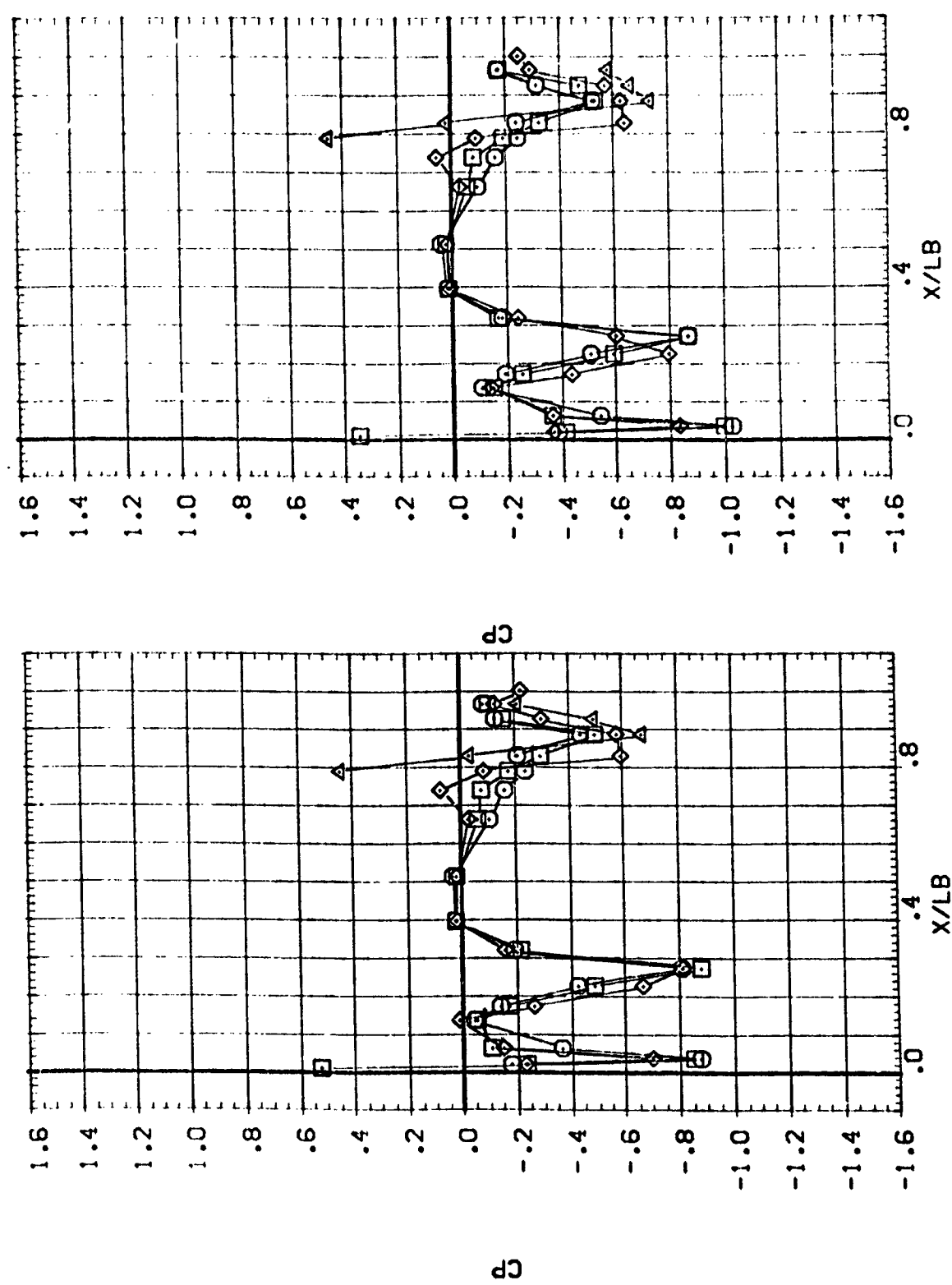
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

PARAMETRIC VALUES
 .000 CRBINC .500
 .000 ELEVON .000
 .000

ALPHA
 RUDDER
 RUDDER

BETAT MACH
 4.120 .906
 8.220

SYMBOL
 70.000
 80.000
 120.000
 135.000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

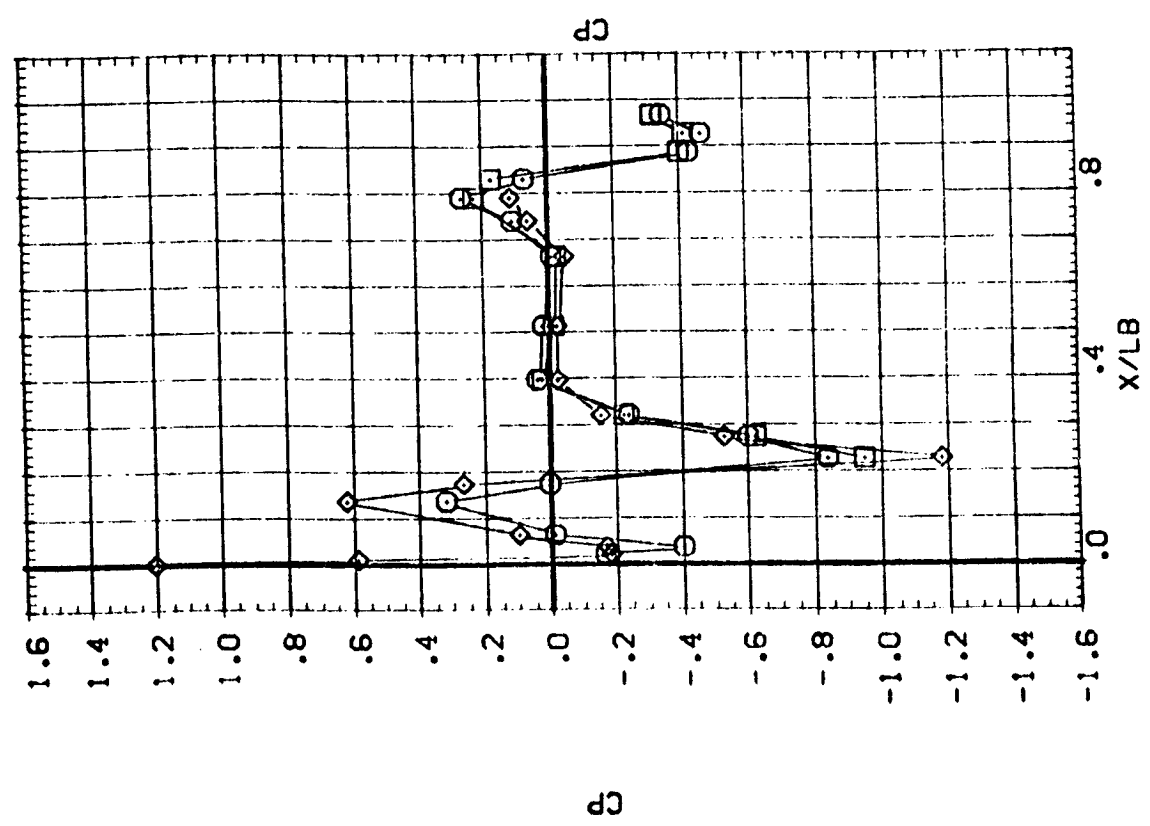
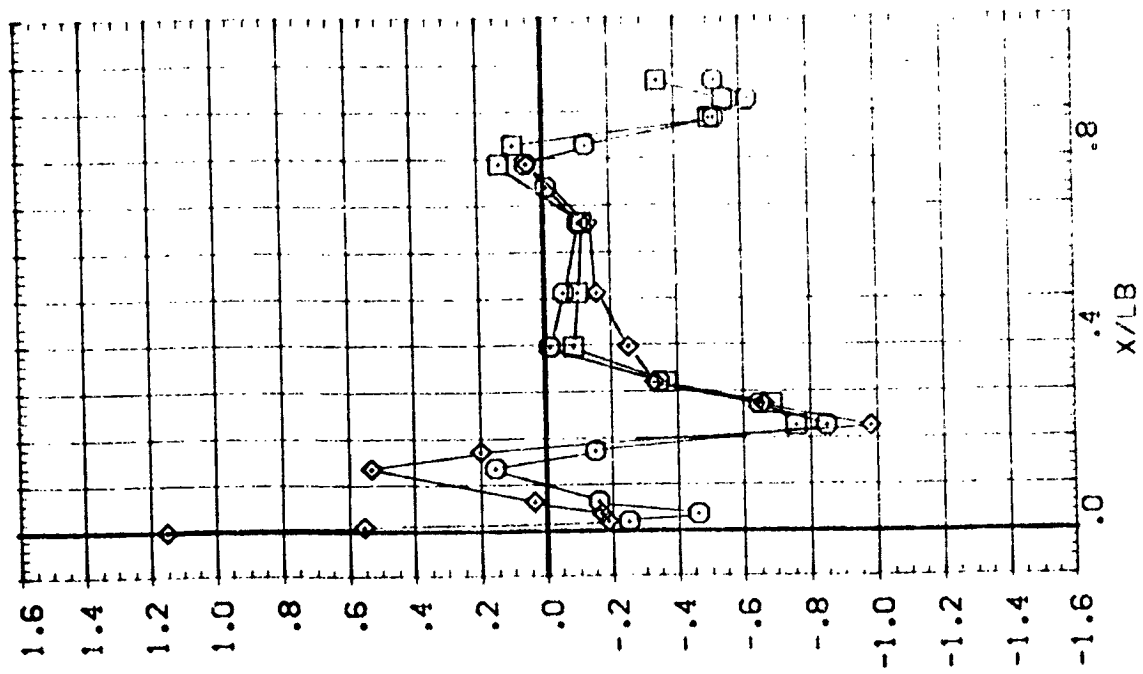
SYMBOL
 ○ □ ◇

PHI 150.000
 165.000
 180.000

BETAT 4.120
 8.220

MACH .906

PARAMETRIC VALUES
 ALPHAT .000 ORBINC .500
 RUDDER .000 ELEVON .000
 RUJFLR .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

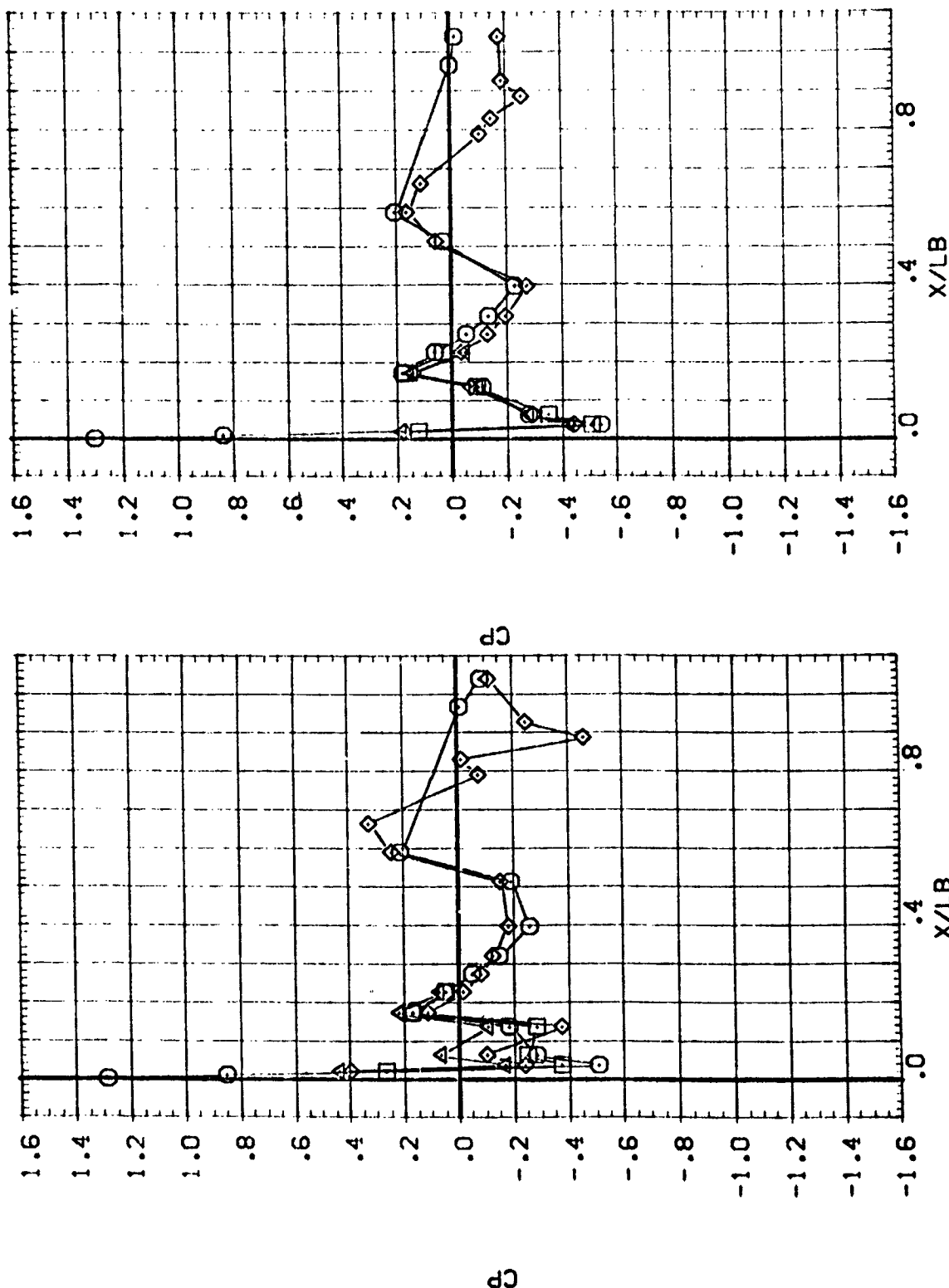
AMES 11-707 1A9 C2A + S3 + T9 ORBITER FUSELAGE (RBMB07)

SYMBOL
 ○ □ ◇ △

PHI
 .000
 20.000
 40.000
 55.000

BETAT MACH
 -4.080 1.098
 2.070

PARAMETRIC VALUES
 .000 .000 .500
 .000 .000 .000
 .000 .000 .000
 .000 .000 .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

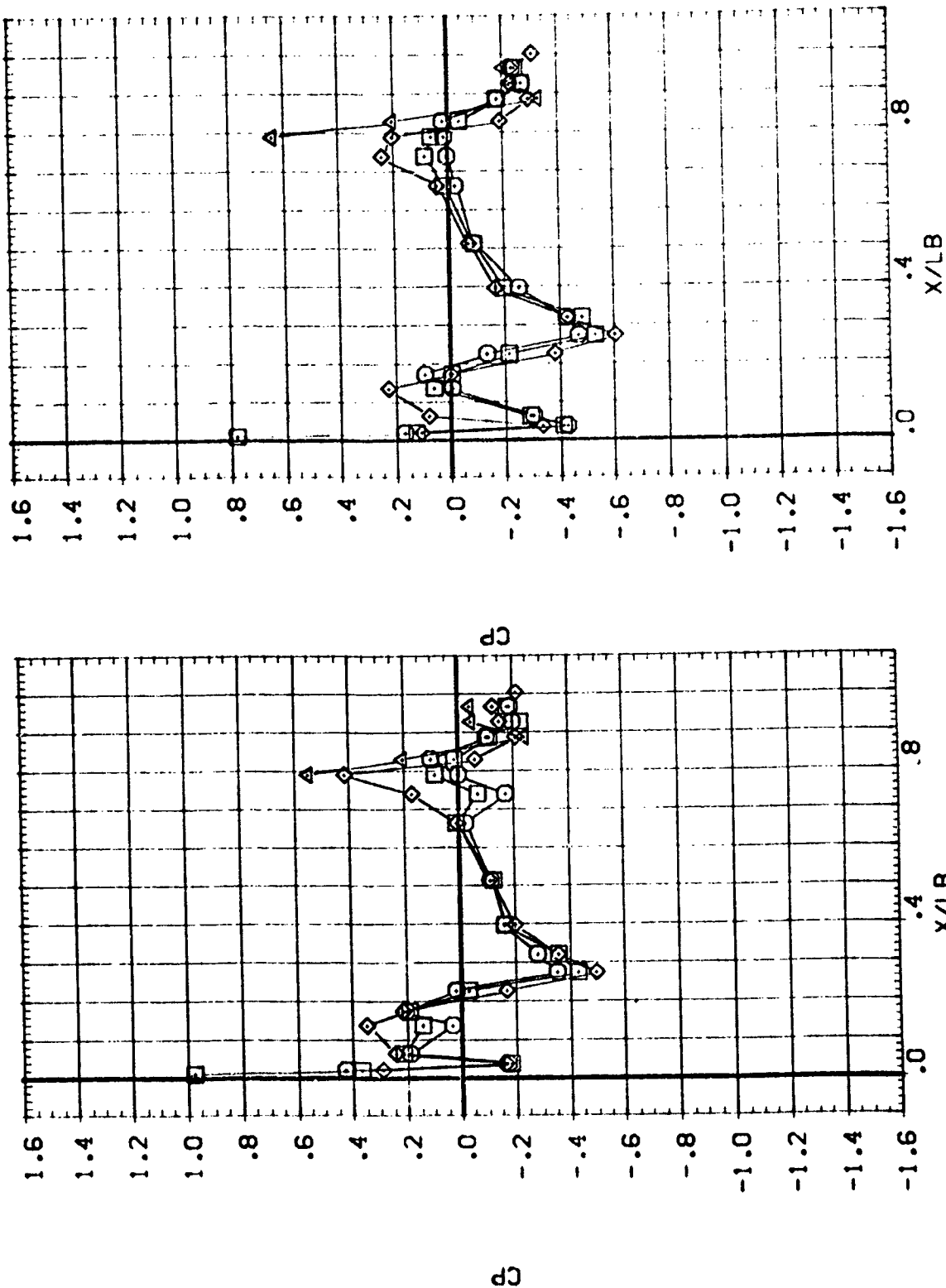
SYMBOL
 ○ □ ◇ △

PHI
 70.000
 90.000
 120.000
 135.000

BETAT
 -4.080
 2.070

MACH
 1.098

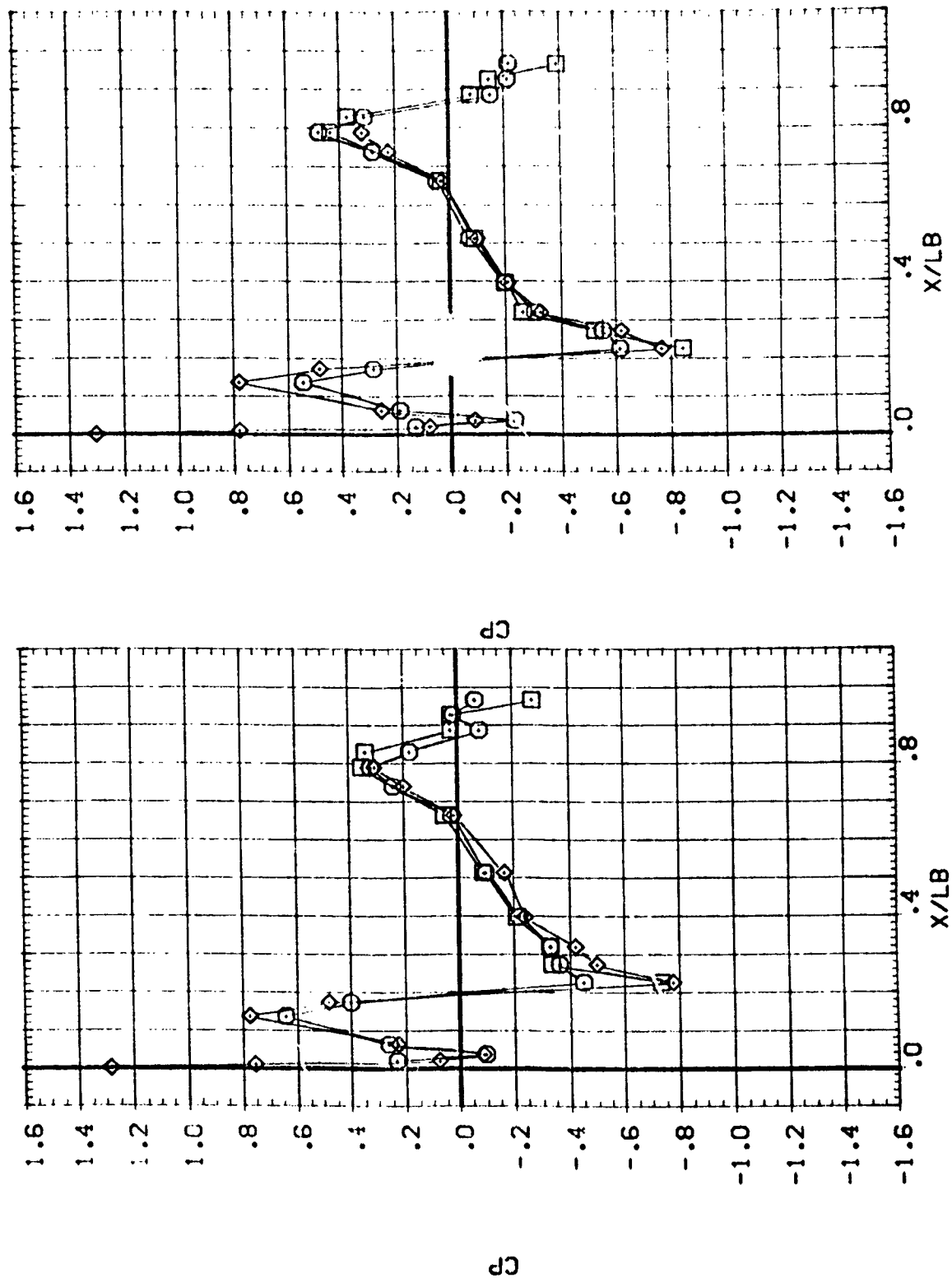
PARAMETRIC VALUES
 ALPHAT .000 CRBINC .500
 RUDDER .000 ELEVON .000
 RUFLR .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AVES 11-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (RBM807)

PARAMETRIC VALUES
 ALPHAT .000 ORBING .500
 RLODR .000 ELEVN .000
 RLODR .000
 SYNO 150.000 MACH 1.098
 BETAT -4.080
 PHAT 165.000
 180.000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 11-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (RBMB07)

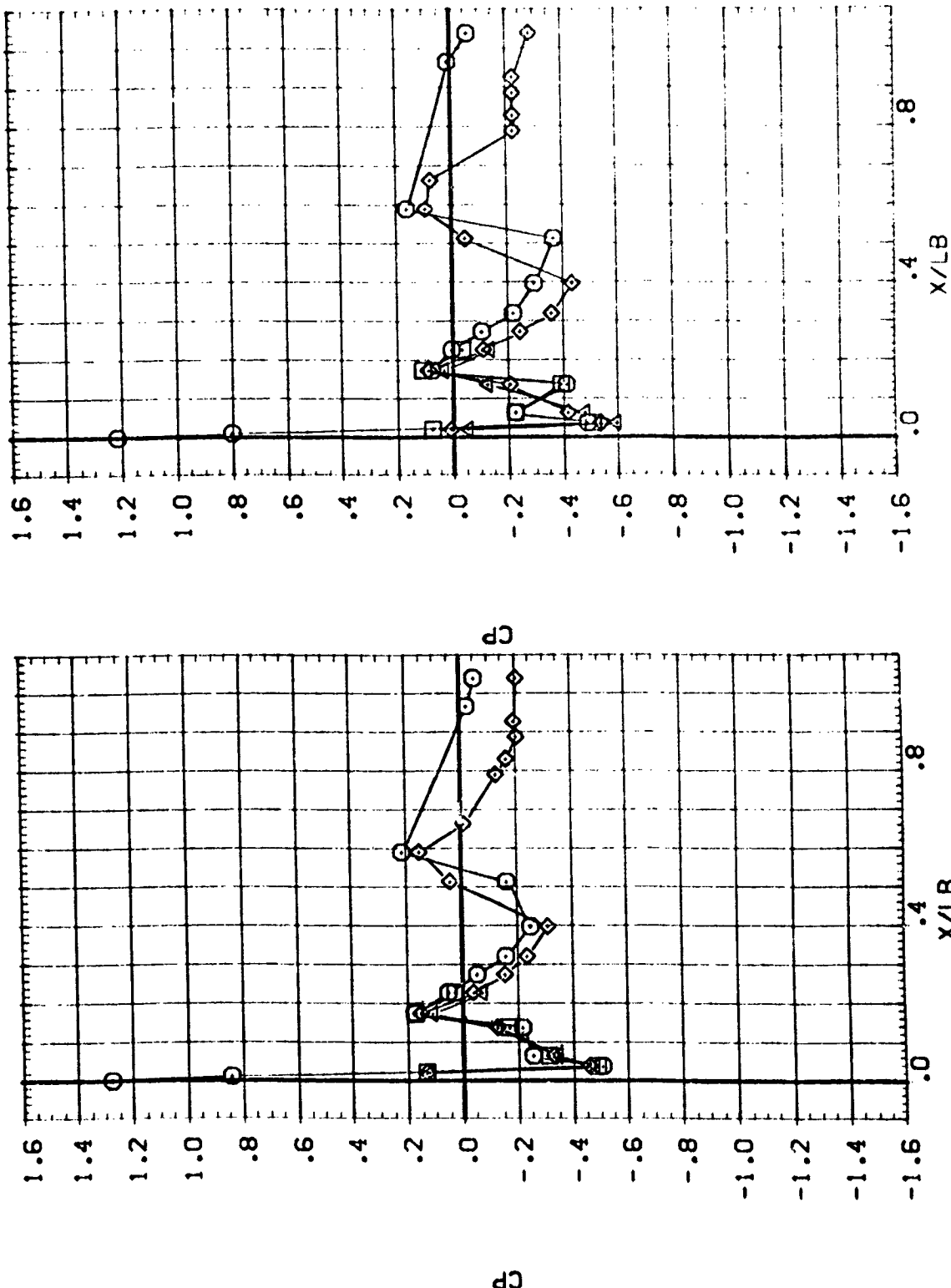
SYMBOL
 ○ □ ◇ △

PM: .000
 20.000
 40.000
 55.000

BETAT 4.140
 8.250

MACH 1.100

PARAMETRIC VALUES
 ALPHA .000 ORBINC .500
 RUDDER .000 ELEVON .000
 RUDDLR .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES



AMES 11-707 1A9 C2A + S3 + T9 ORBITER FUSELAGE (RBMBC07)

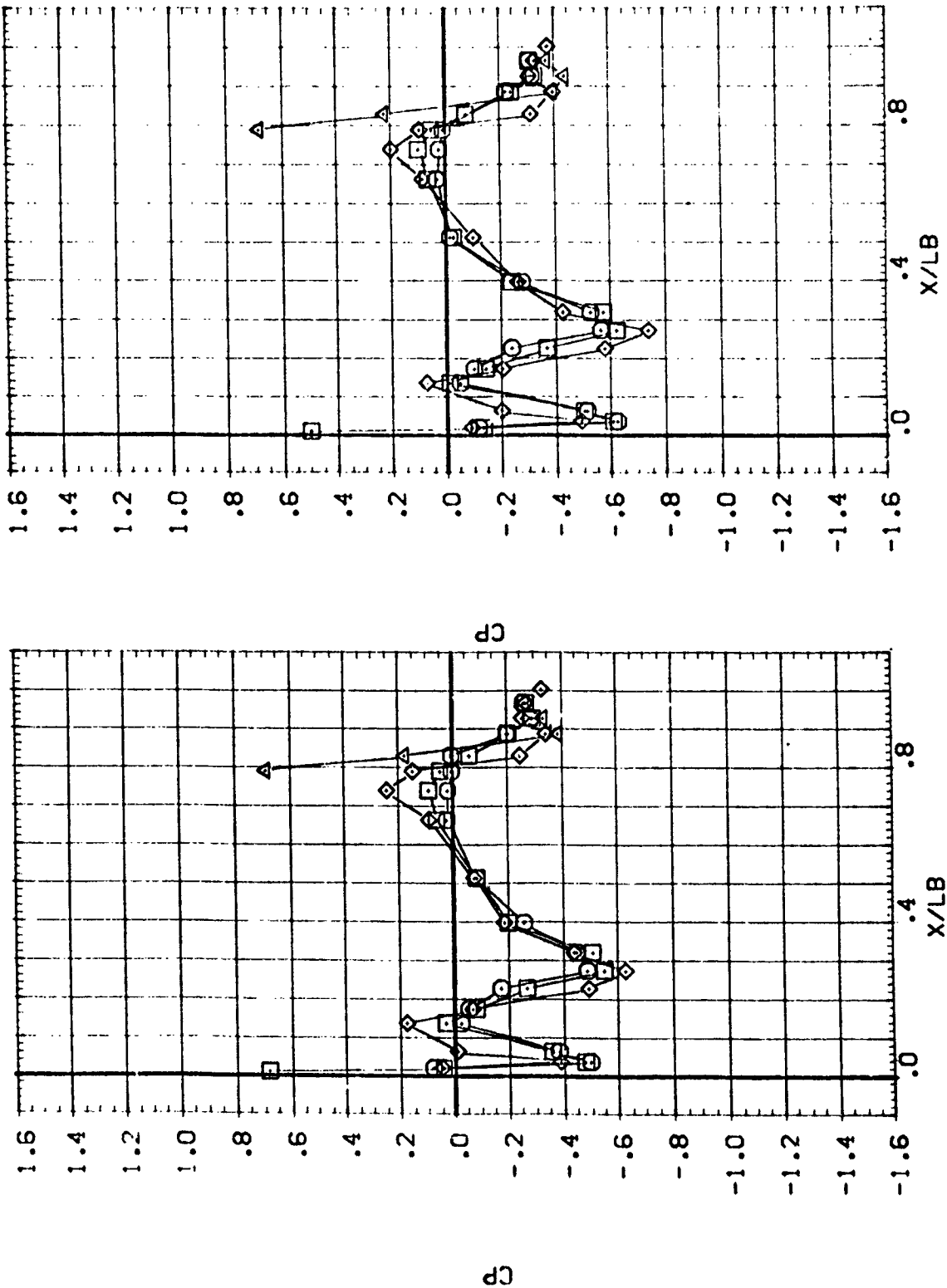
SYMBOL
○
◇
△

PMI
70.000
90.000
120.000
135.000

BETAT
4.140
8.250

MACH
1.100

PARAMETRIC VALUES
ALPHAT .000 ORBIN .500
RUDDER .000 ELEVON .000
RUOFLR .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 11-707 1A9 02A + S3 + 19 ORBITER FUSELAGE (RBMB07)

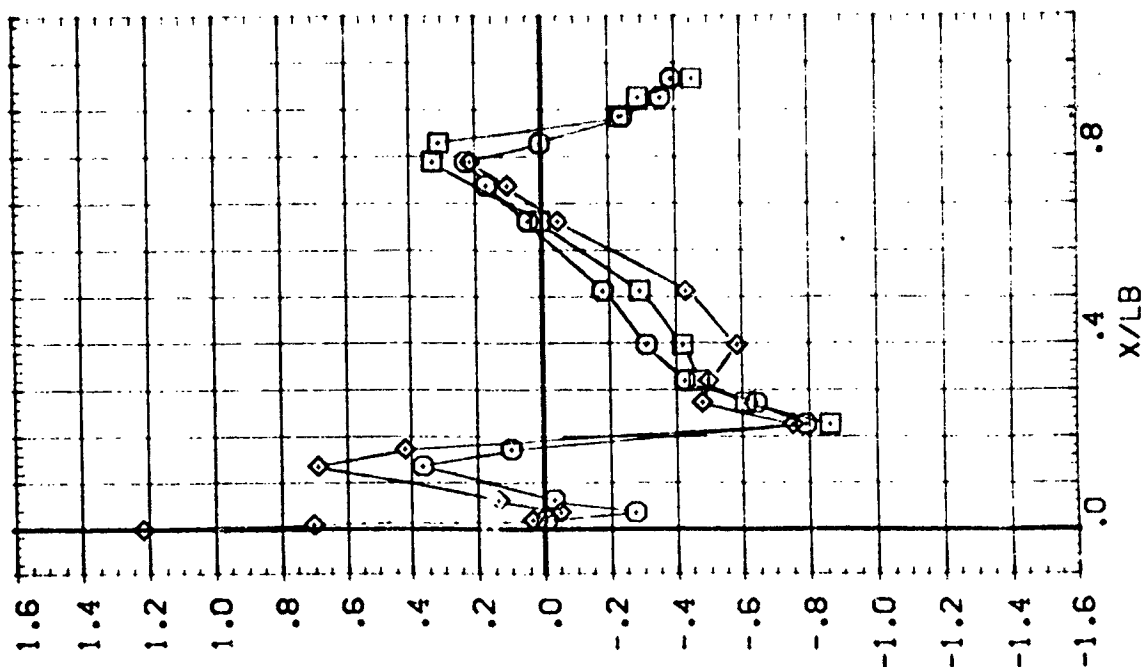
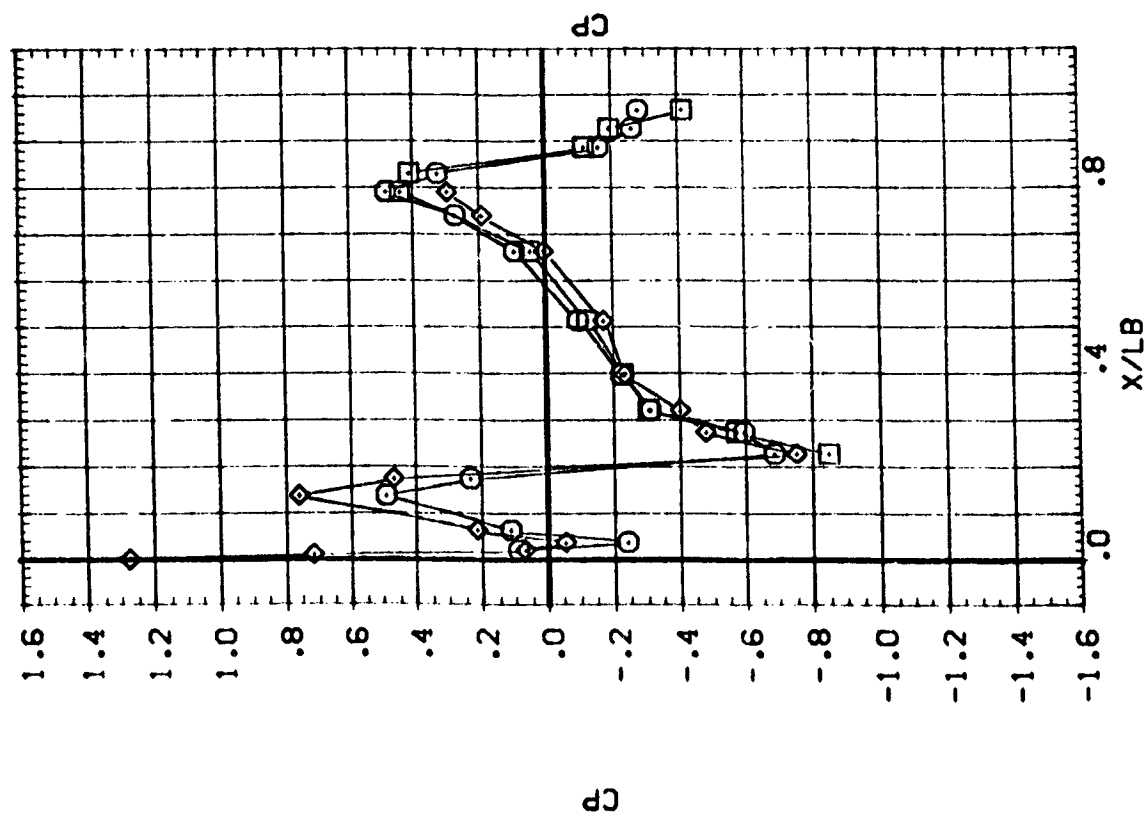
SYMBOL

PH: 150.000
165.000
180.000

BETAT 4.140
8.250

MACH 1.100

PARAMETRIC VALUES
ALPHAT .000 ORBINC .500
RUDDER .000 ELEVON .000
RUFELR .000

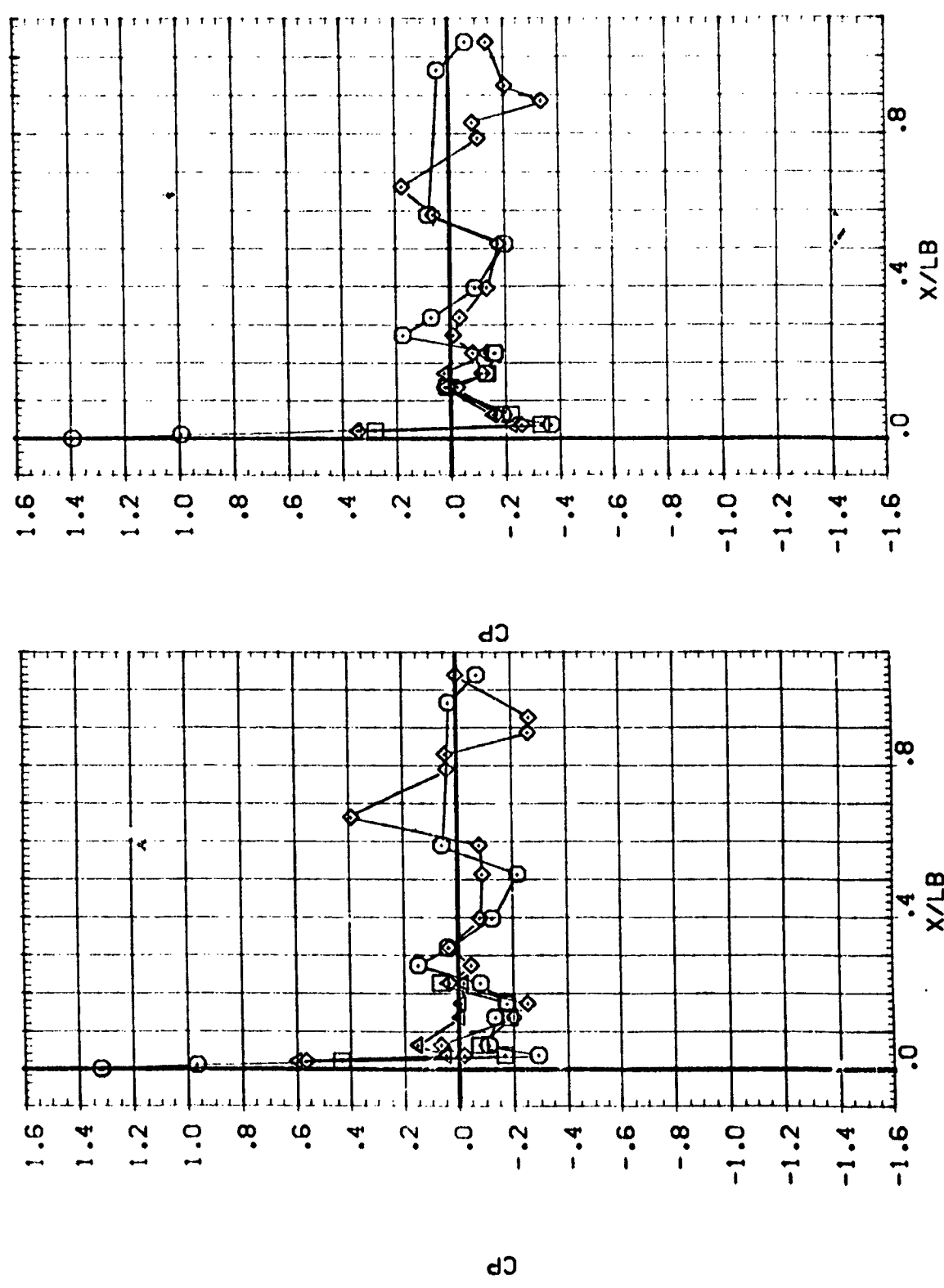


LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES



AMES 11-707 1A9 32A + S3 + T9 ORBITER FUSELAGE (RBMB07)

SYMBL	PHI	BETAT	MACH	PARAMETRIC VALUES
	.000	-4.080	1.248	ALPHAT .000
	20.000	2.060		RJDOER .000
	40.000			RJDFLR .000
	55.000			ORBIT NC .000
				ELEVEN .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 11-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (RBMB07)

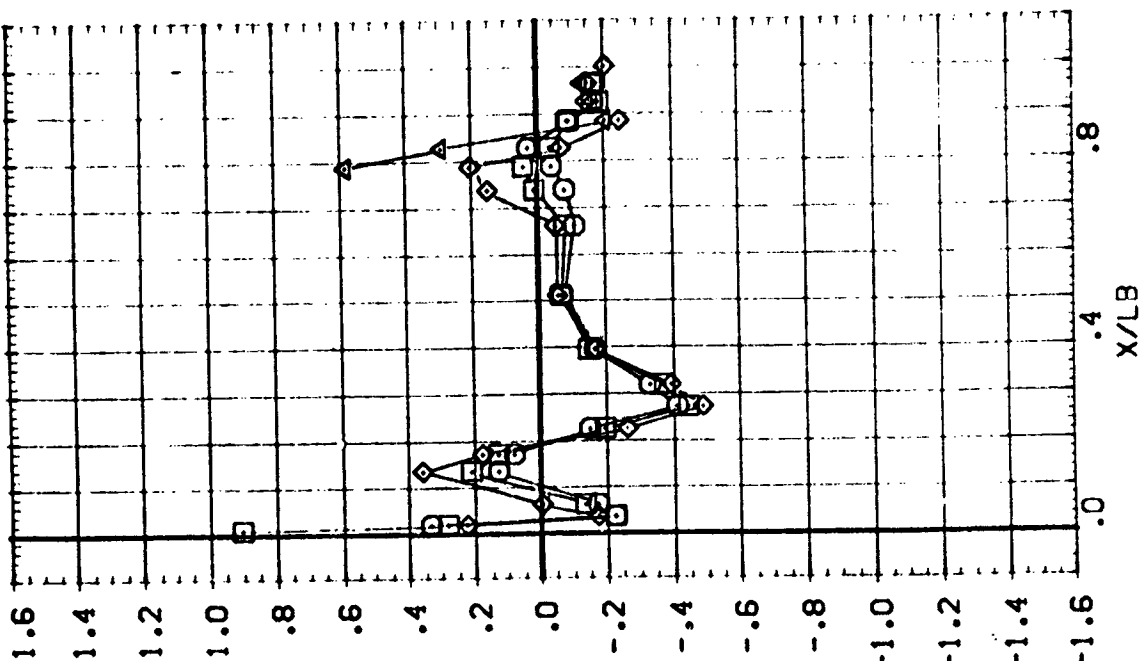
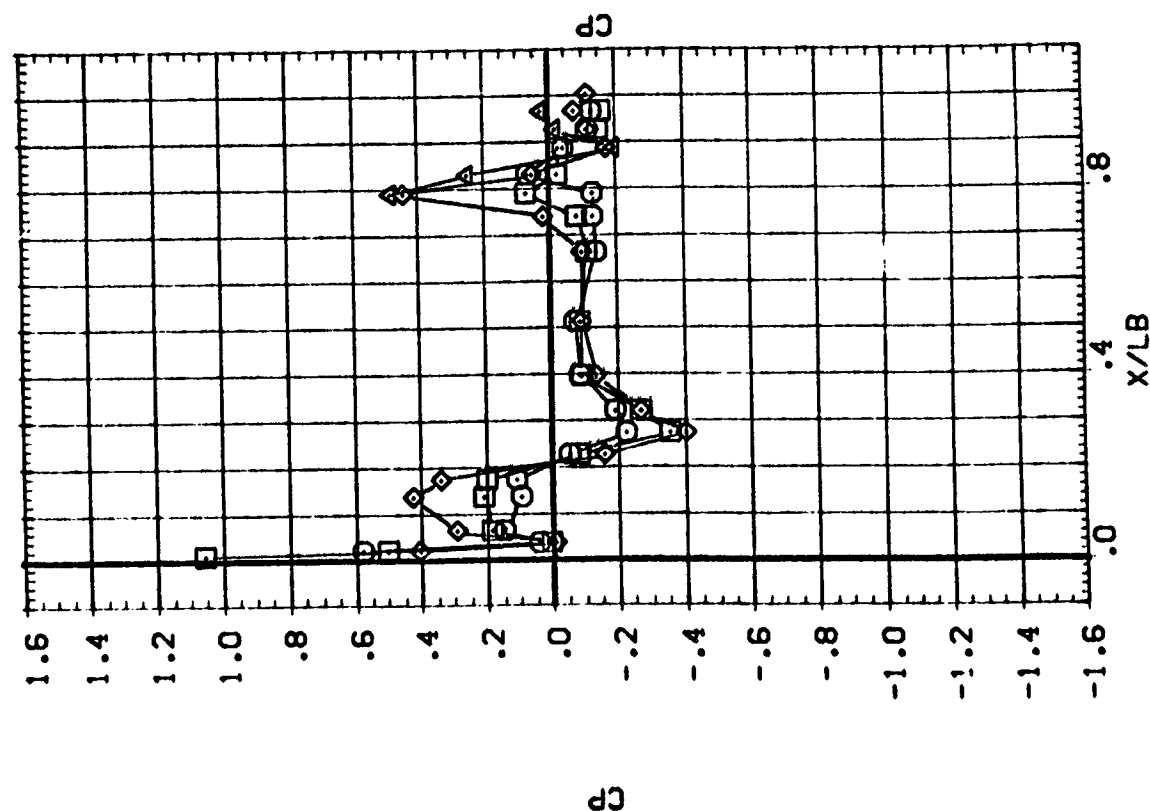
SYMBOL
 O I \square \triangle

PHI
 70.000
 90.000
 120.000
 135.000

BETAT
 -4.080
 -2.060

MACH
 1.248

PARAMETRIC VALUES
 ALPHAT .000 CPBINC .500
 RUDDER .000 ELEVON .000
 RUOFLR .000

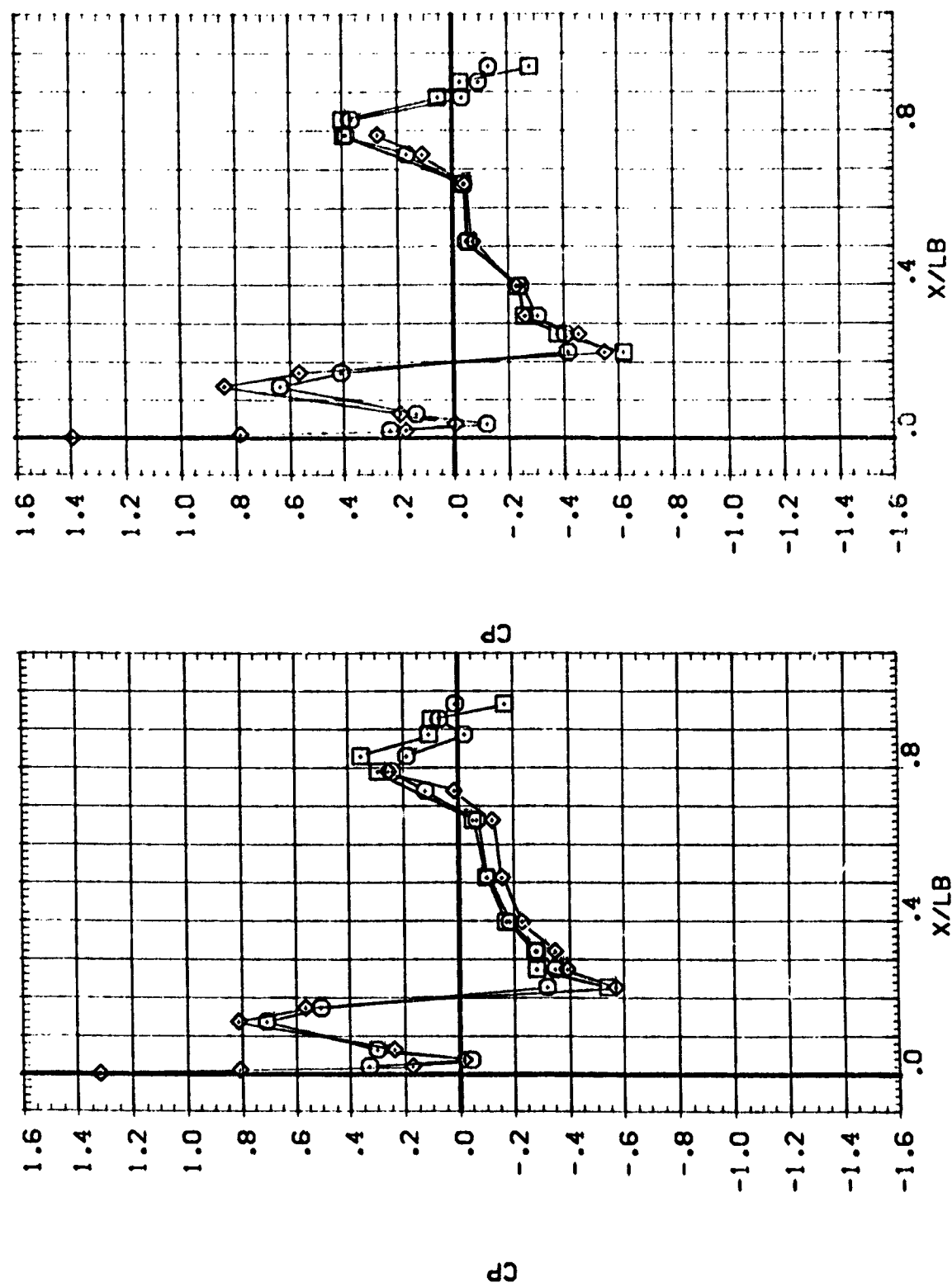


LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES



AMES 11-707 1A9 C2A + S3 + T9 ORBITER FUSELAGE (RBMB07)

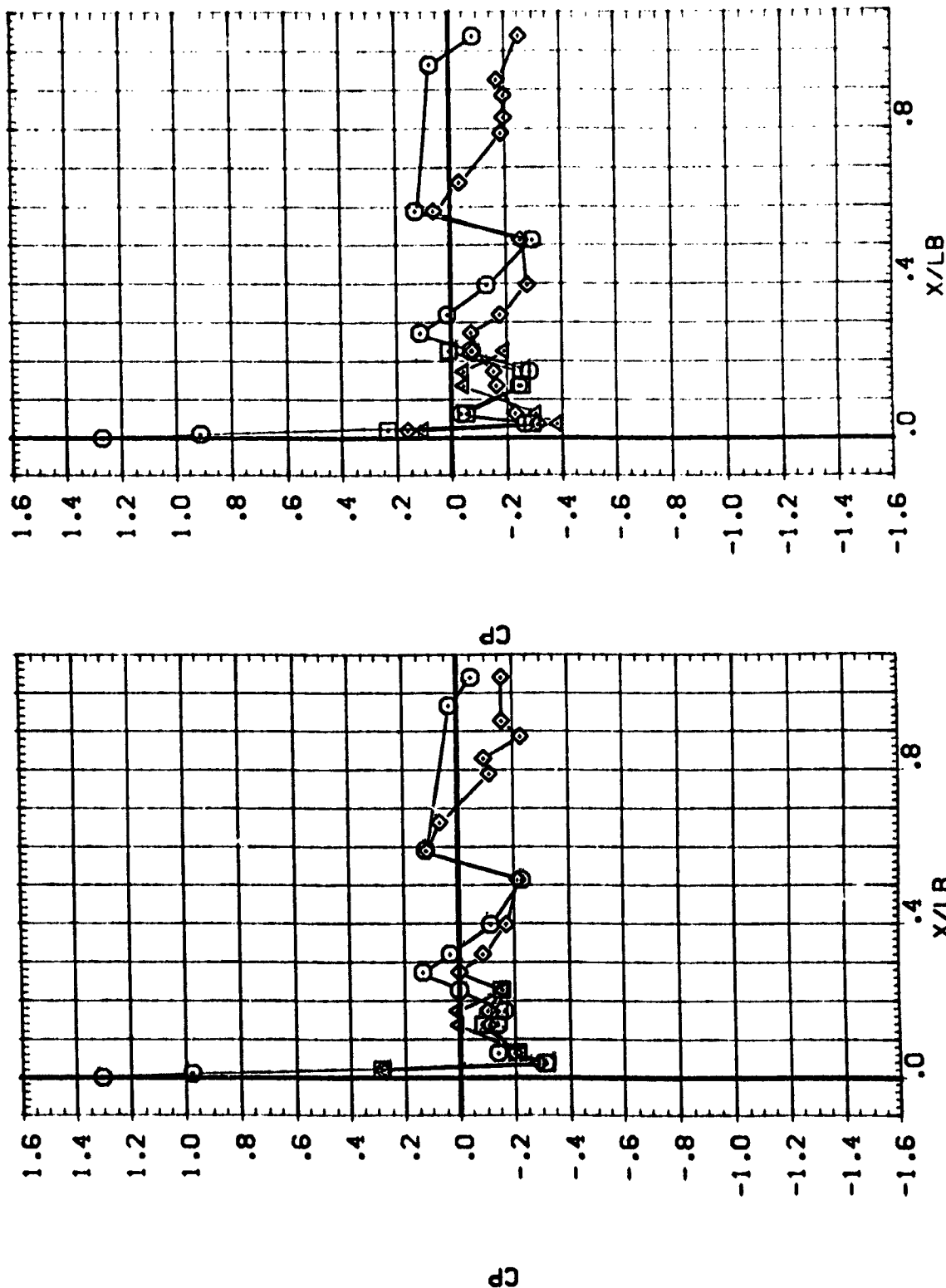
SYMBOL	PHI	BETAT	MACH	PARAMETRIC VALUES		
○	150.000	-4.080	1.248	ALPHAT	.000	ORBIN
◇	165.000	2.080		RUDER	.000	ELEV
	180.000			RUDFLR	.000	



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 11-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (RBMB07)

SYMBOL	PHI	BETAT	MACH	PARAMETRIC VALUES			
				ALPHAT	ORBITINC	ELEVON	
○	.000	4.100	1.245	.000	.000	.000	
△	20.000	8.190		.000	.000	.000	
◇	55.000			.000	.000	.000	



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES



AMES 11-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (RBMB07)

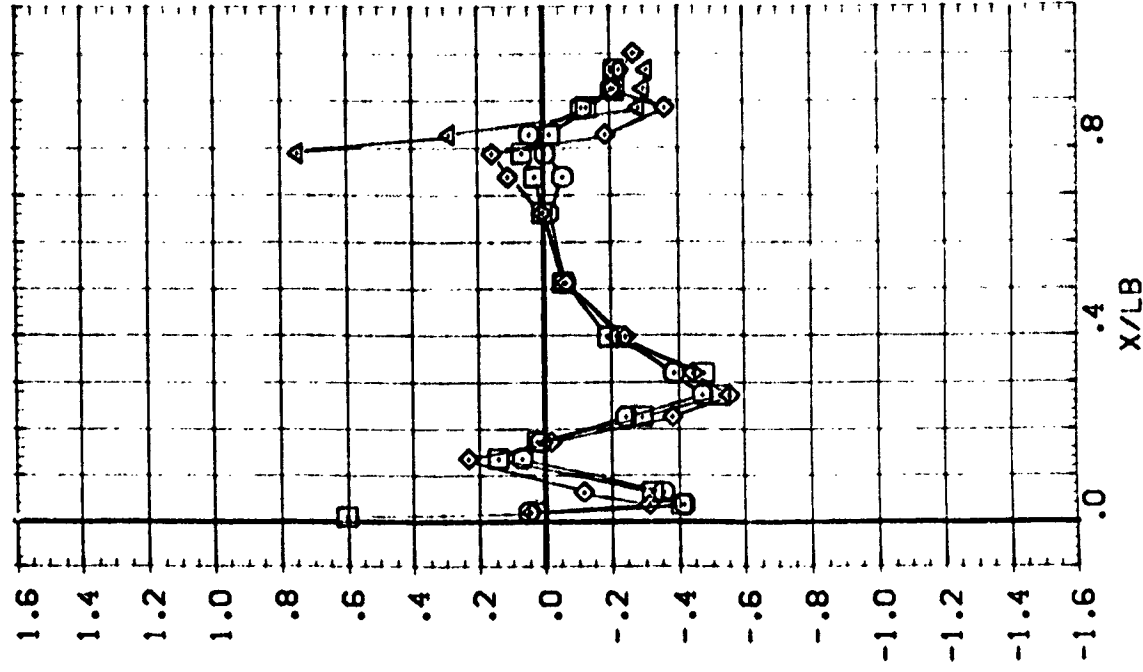
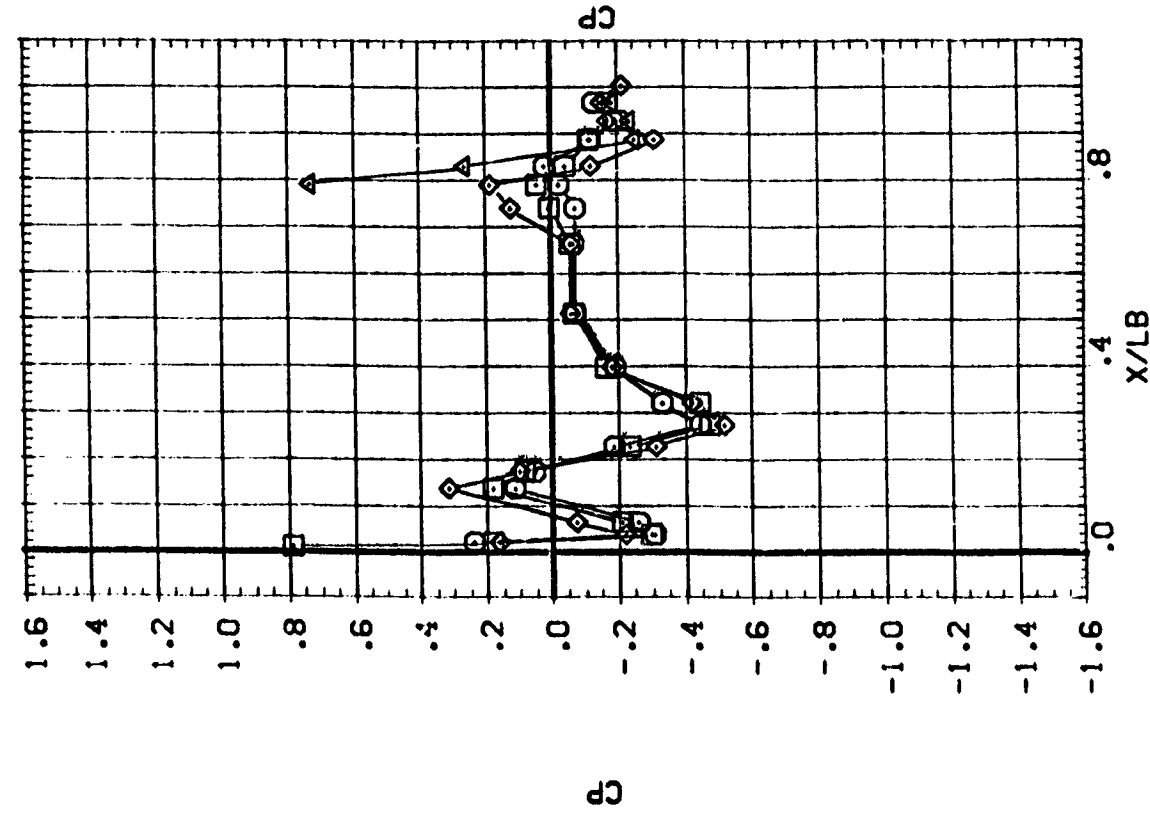
SYMBOL
○ □ ◇ △

PMI
70.000
90.000
120.000
150.000

BETAT
4.100
8.190

MACH
1.245

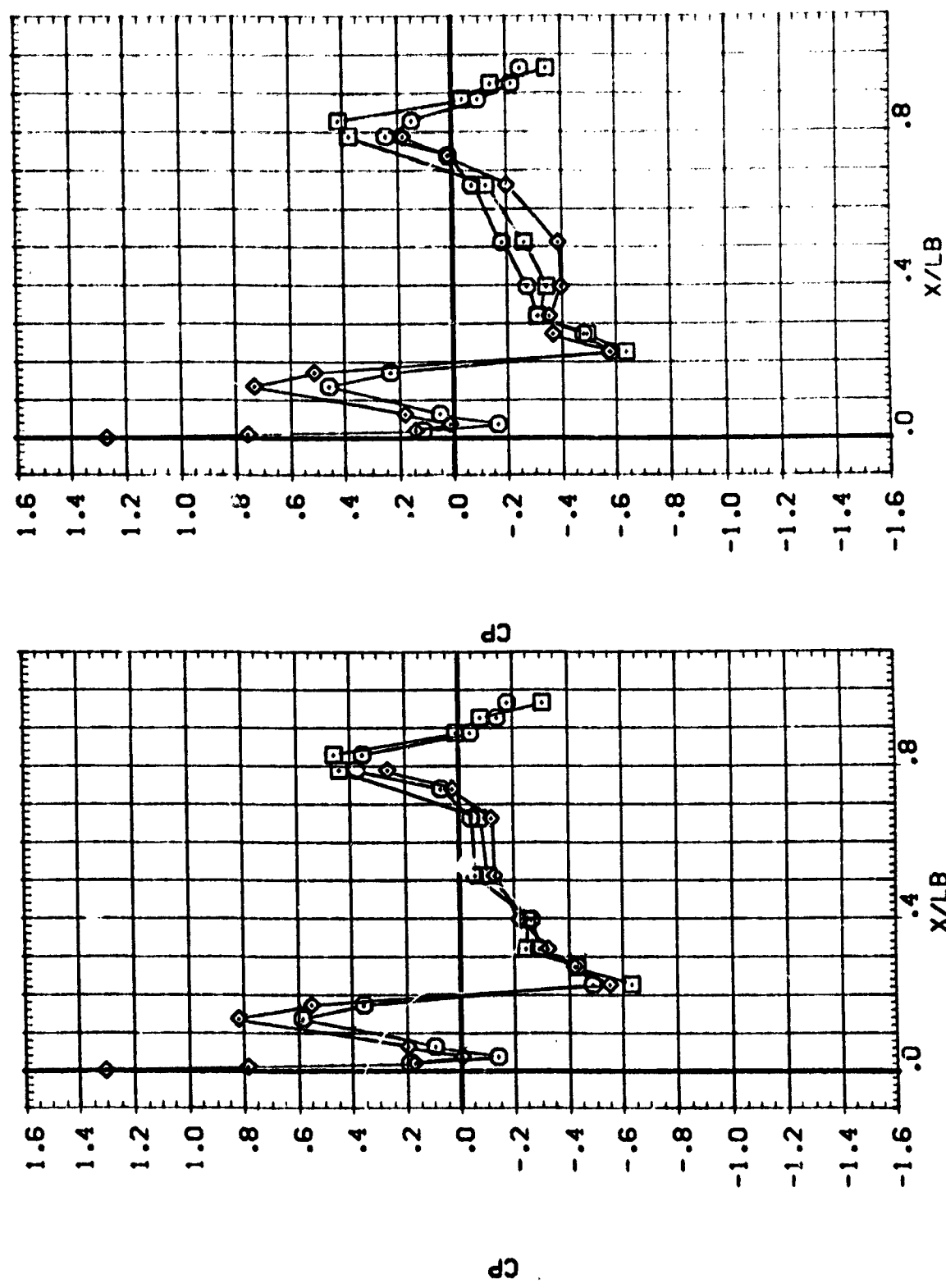
PARAMETRIC VALUES
ALPHAT .000
RJOER .000
RJOELR .000
ORBINC .500
ELEVON .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 11-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (RBMB07)

SYMBOL	PHI	BETAT	MACH	PARAMETRIC VALUES			
				ALPHAT	ORBITINC	ELEVON	
○	150.000	4.100	1.245	.000	.000	.000	.500
□	165.000	8.190		.000	.000	.000	.500
◇	180.000			.000	.000	.000	.500



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 11-707 1A9 C2A + S3 + 19 ORBITER FUSELAGE (RBMB07)

SYMBOL
 ○
 △
 ◇
 □

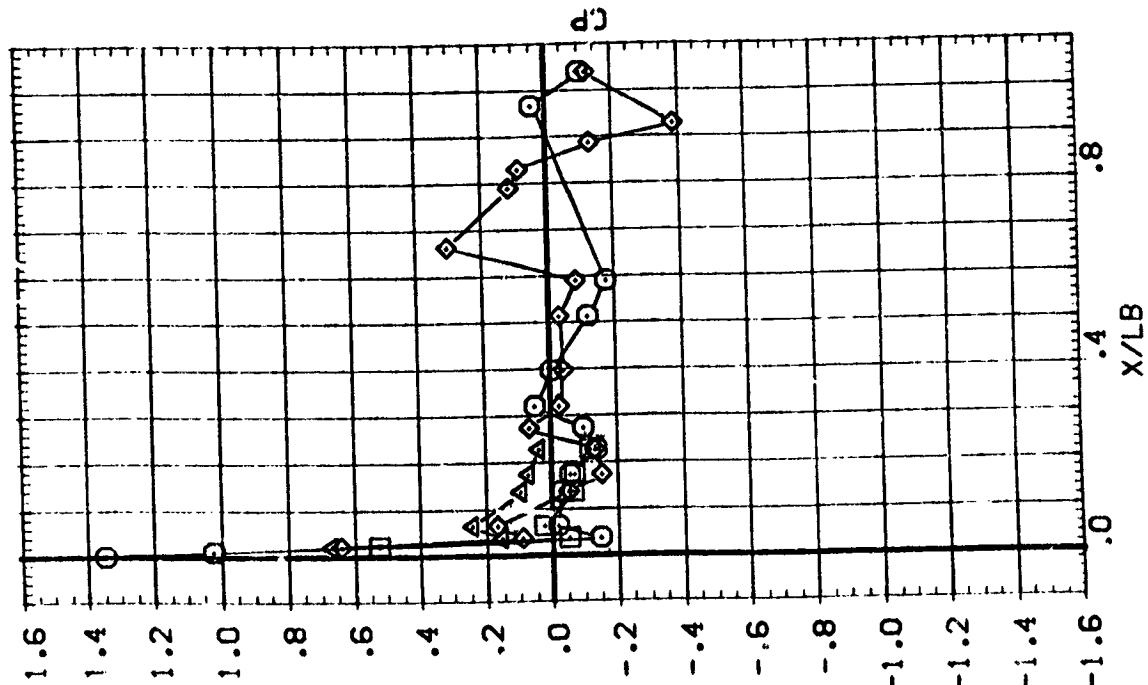
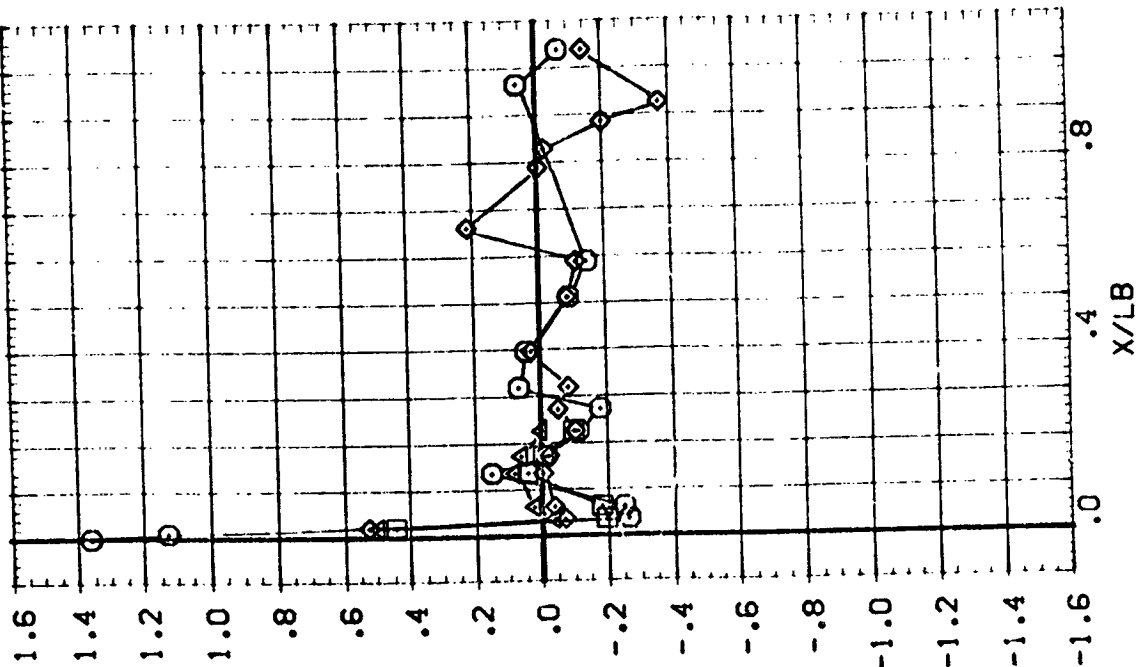
PHI .000
 20.000
 40.000
 55.000

BETAT -4.080
 .020

MACH 1.397

PARAMETRIC VALUES
 .000 ORBINC
 .000 ELEVON
 .000

ALPHAT
 RUDDER
 RUDFLR



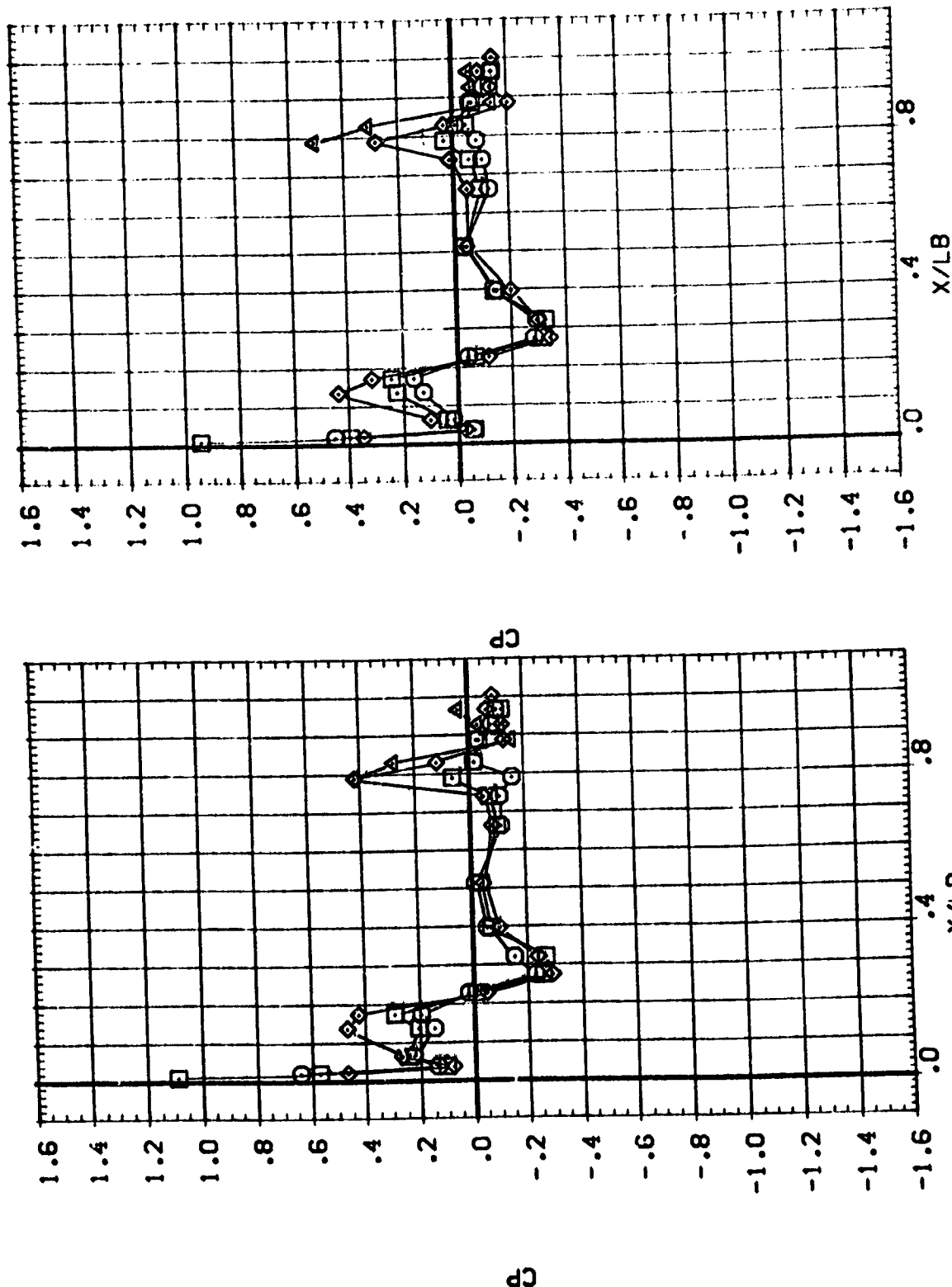
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

SYMBOL
 ○ □ ◇ △

PHI
 70.000
 90.000
 120.000
 135.000

BETAT MACH
 -4.080 1.397
 .020

PARAMETRIC VALUES
 ALPHAT .000 ORBINC .500
 RUDDER .000 ELEVON .000
 RUFLR .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 11-707 1A9 02A + S3 + 19 ORBITER FUSELAGE (RBMB07)

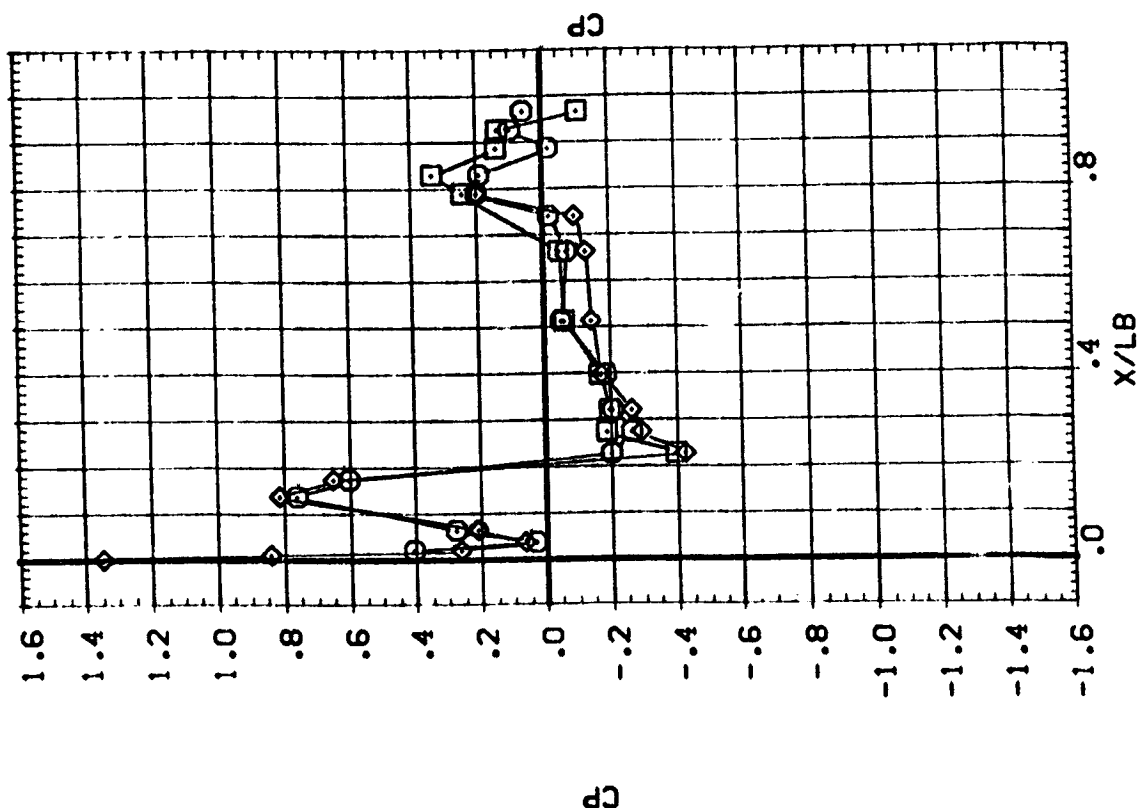
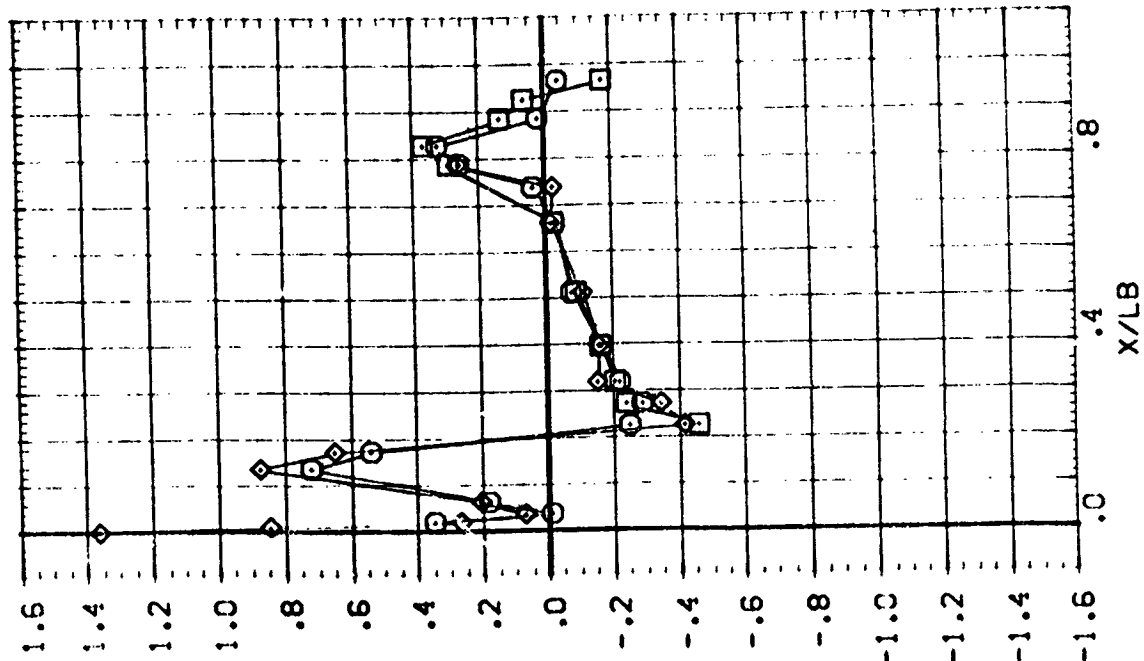
PARAMETRIC VALUES
 .000 ORIGIN
 .000 ELEV
 .000

ALPHAT
 RUDDER
 RUDDLR

PHI
 150.000
 165.000
 180.000

BETAT
 -4.080
 .020

MACH
 1.397



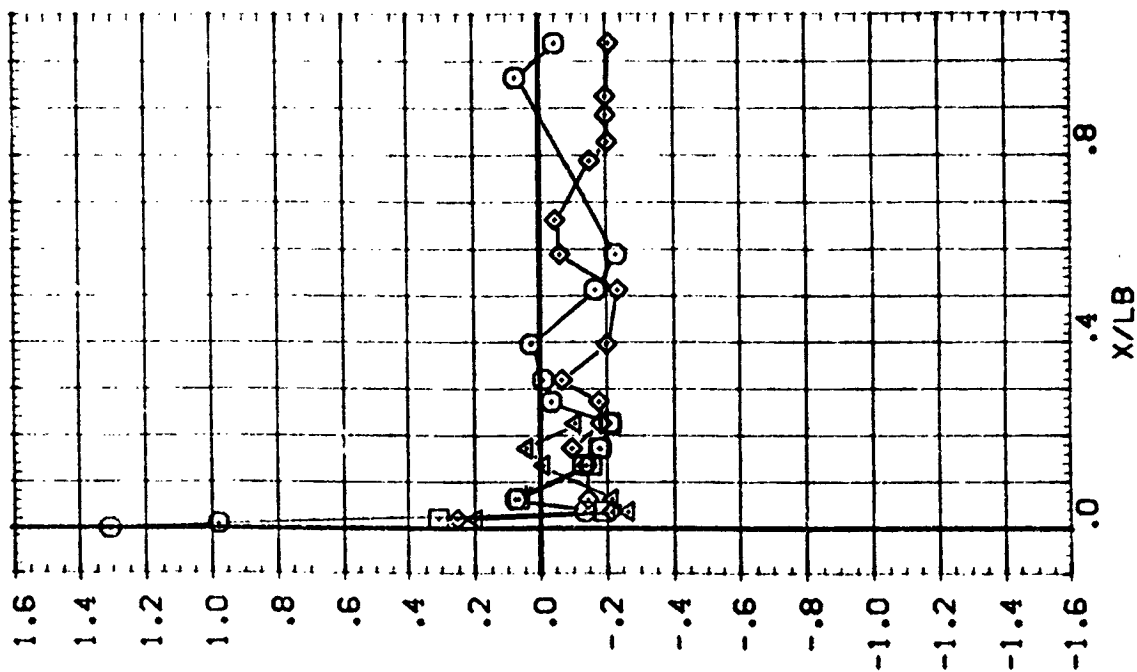
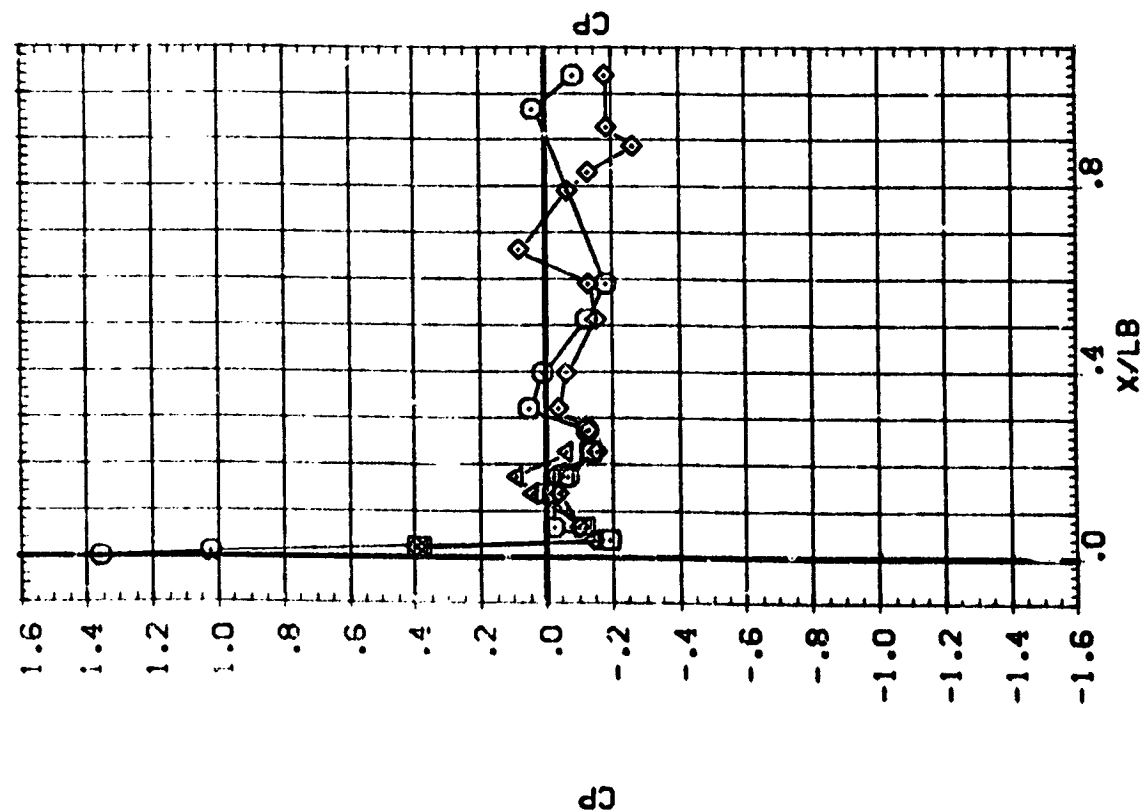
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 11-707 1A9 32A + S3 + 19 ORBITER MESSAGE (RBM307)

[illegible]

PHI	BETAT	WACH
.000	4.110	1.394
20.000	8.210	
40.000		
55.000		

	PARAMETRIC VALUES		
ALPHA:	.000	CRBINC	.500
RJDDR	.000	ELEVON	.000
RJDFLR	.000		

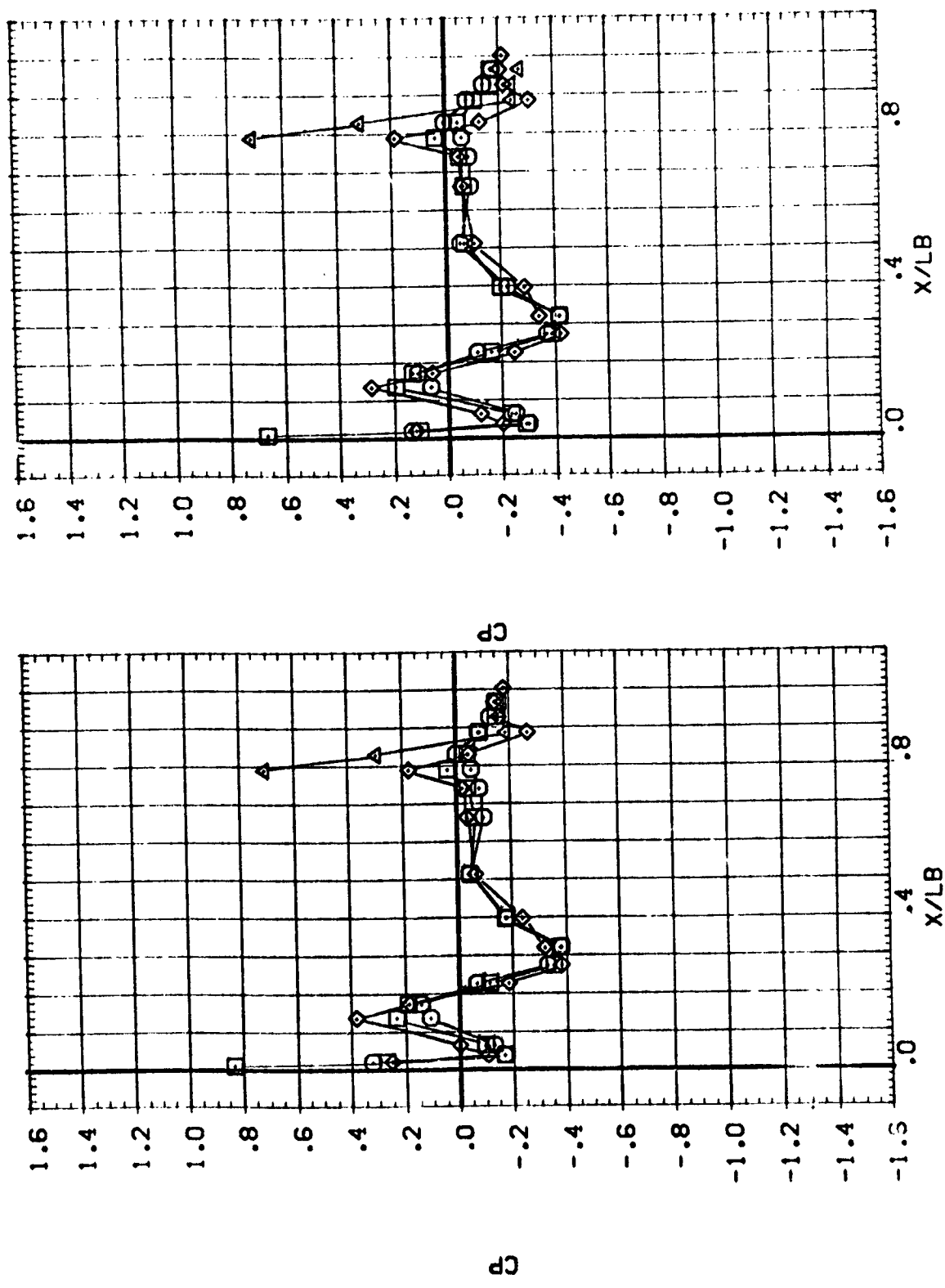


LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES



AMES 1:-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (RBM007)

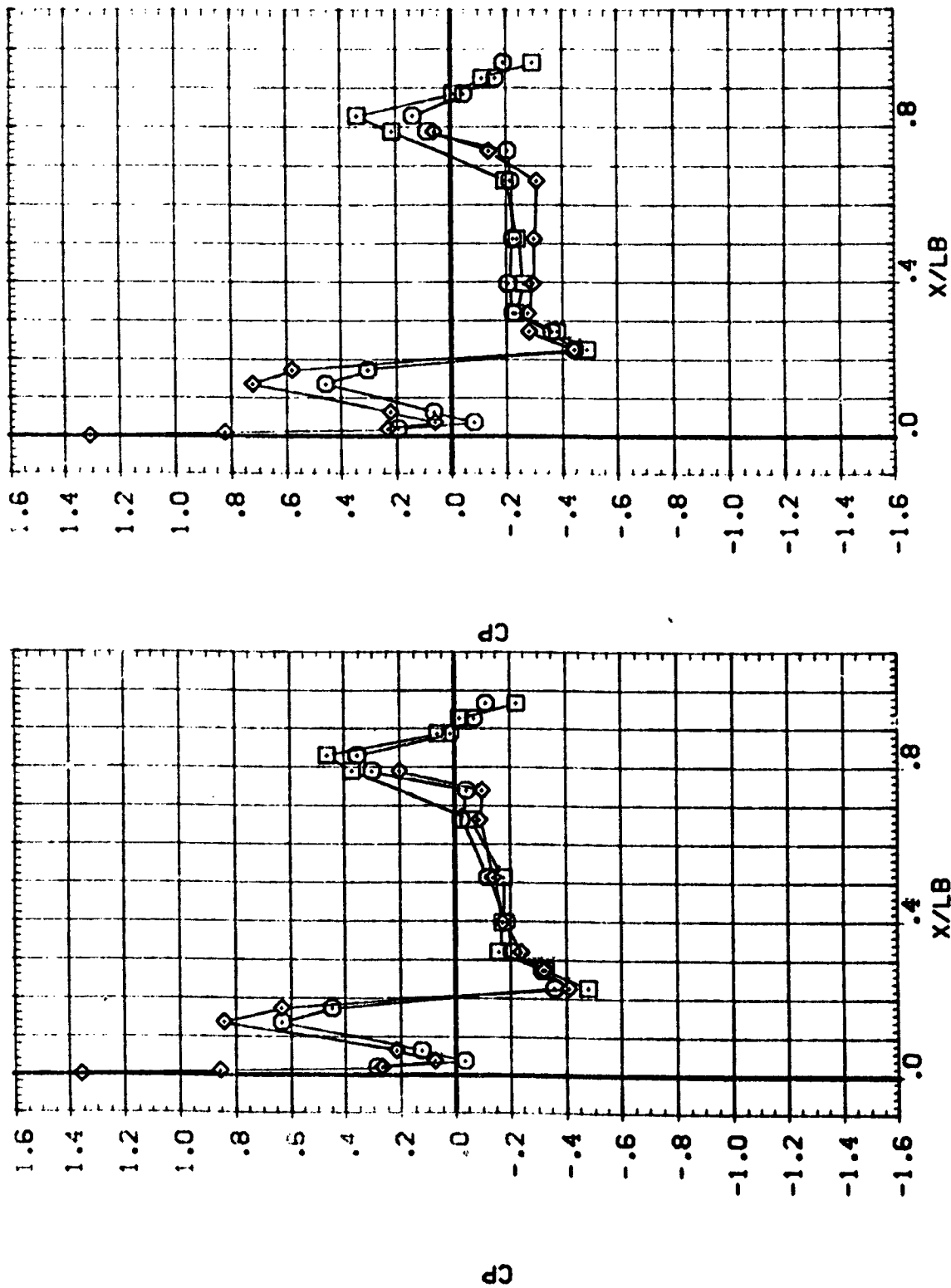
SYMBOL	PHI	BETAT	MACH	PARAMETRIC VALUES			
	70.000	4.110	1.394	ALPHAT	.000	ORBITINC	.500
	90.000	8.210		R_00ER	.000	ELEVON	.000
	120.000			R_00FLR	.000		



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AN: S 11-707 :A9 02A + S3 + 79 ORBITER FUSELAGE (RBMB07)

SYMBOL	Q1	BETA	MACH	PARAMETRIC VALUES		
	150.000	4.110	1.384	ALPHA	ORBIT	.500
	165.000	8.210		RUDDER	ELEVON	.000
	180.000			RUDFLR		.000

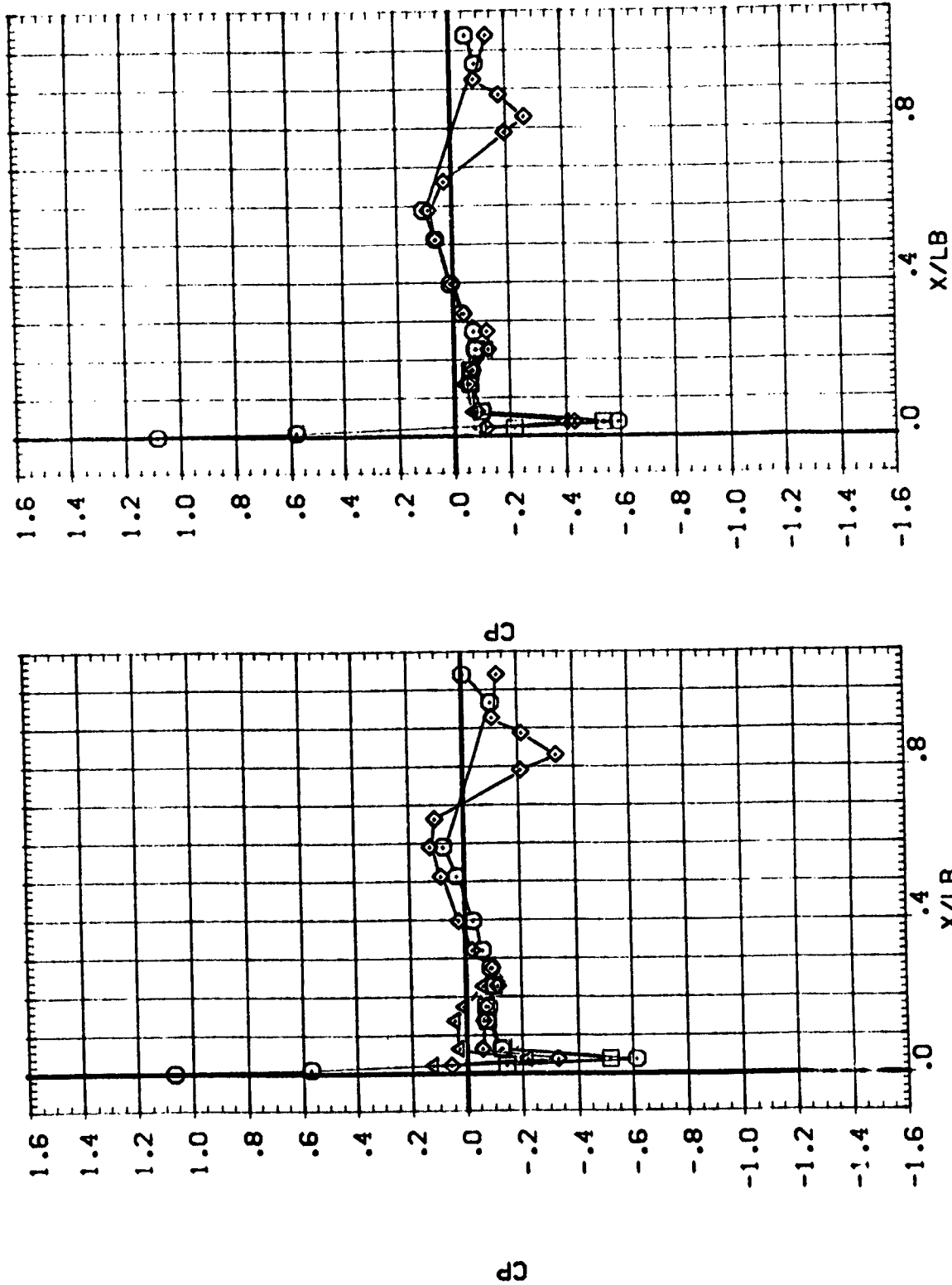


LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES



AMES 11-707 1A9 02A + S3 + 19 ORBITER FUSELAGE (RBMB09)

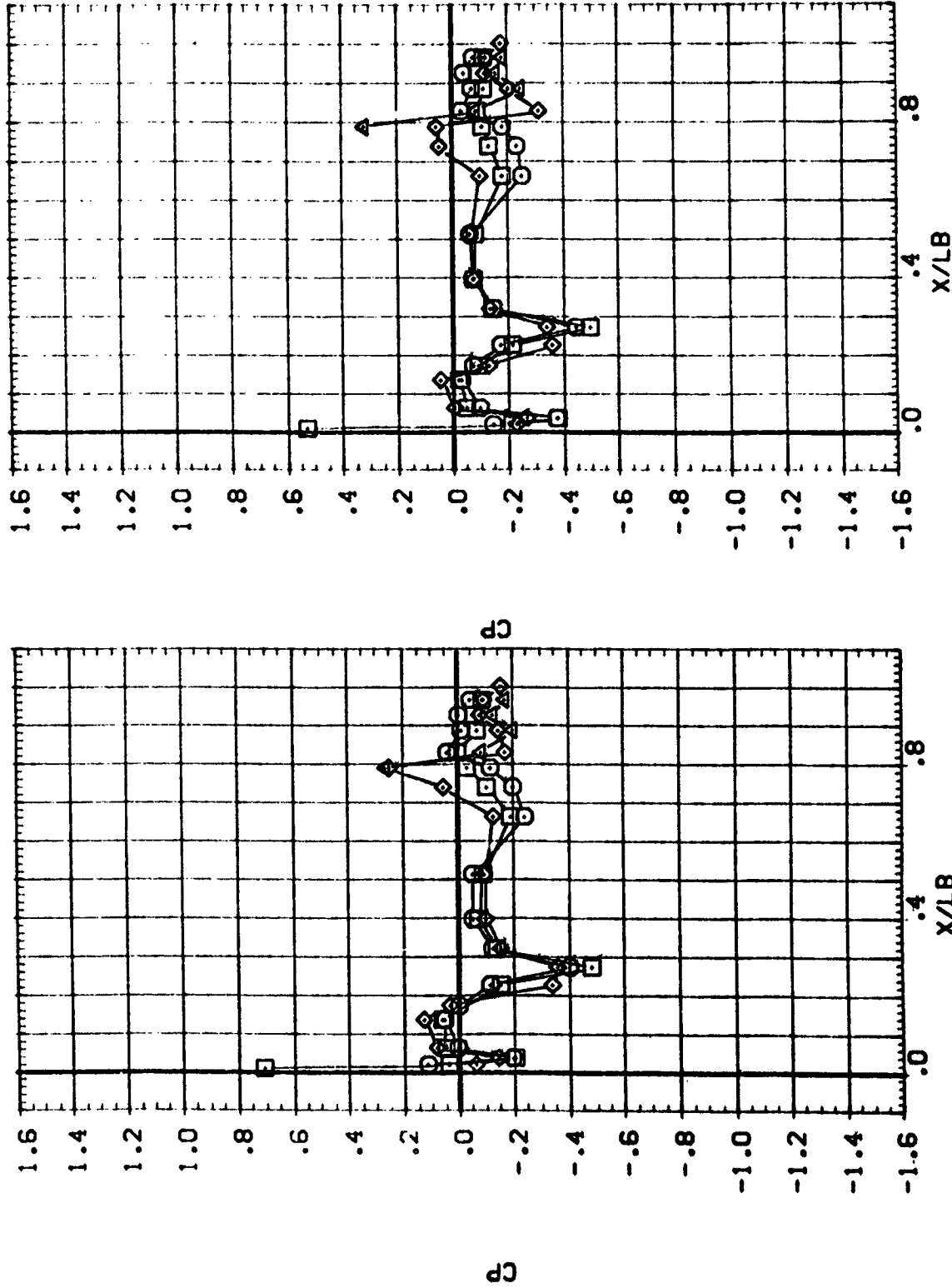
SYMBOL	PHI	BETAT	MACH	PARAMETRIC VALUES	
	.000	-4.030	.598	ALPHAT	4.000
	20.000	.020		RUDER	.000
	40.000			RUDLR	.000
	55.000				



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 11-707 :A9 C2A + S3 + 19 ORBITER FUSELAGE (R8MB09)

SYMBOL	PHI	BETAT	MACH	PARAMETRIC VALUES
□	70.000	-4.030	.598	ALPHAT 4.000 CRBINC .500
◇	90.000	.070		RDOER .000 ELEVON .000
△	120.000			RDOFLR .000
	135.000			

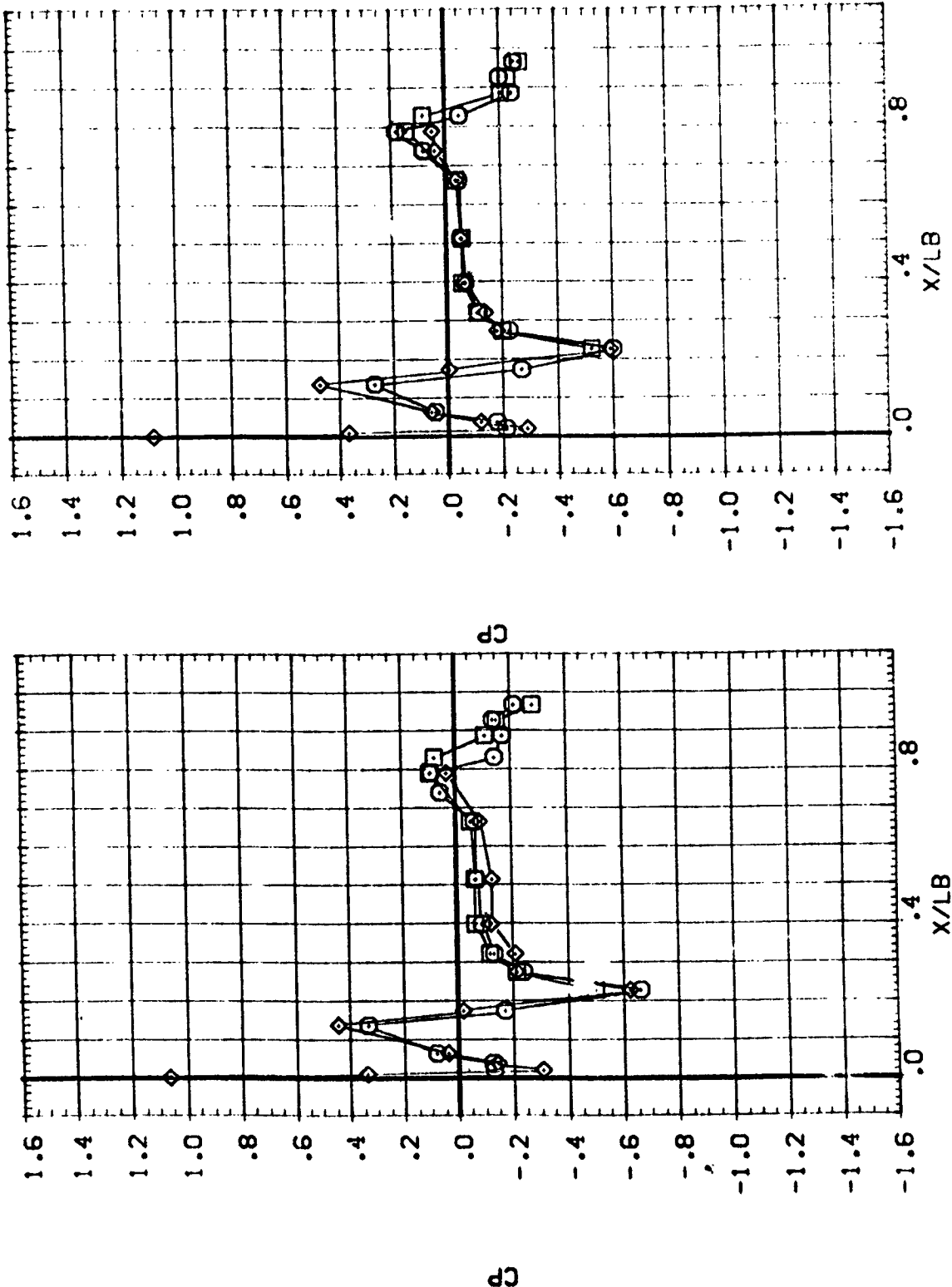


LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES



AMES 11-707 1A9 32A + S3 + 19 ORBITER FUSELAGE (RBM809)

SYMBOL	PHI	BETA	MACH	PARAMETRIC VALUES		
○	150.000	-4.030	.598	ALPHA	4.000	ORBITAL
◇	65.000	.020		RUDER	.000	ELEVON
	80.000			RUDFLR	.000	



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

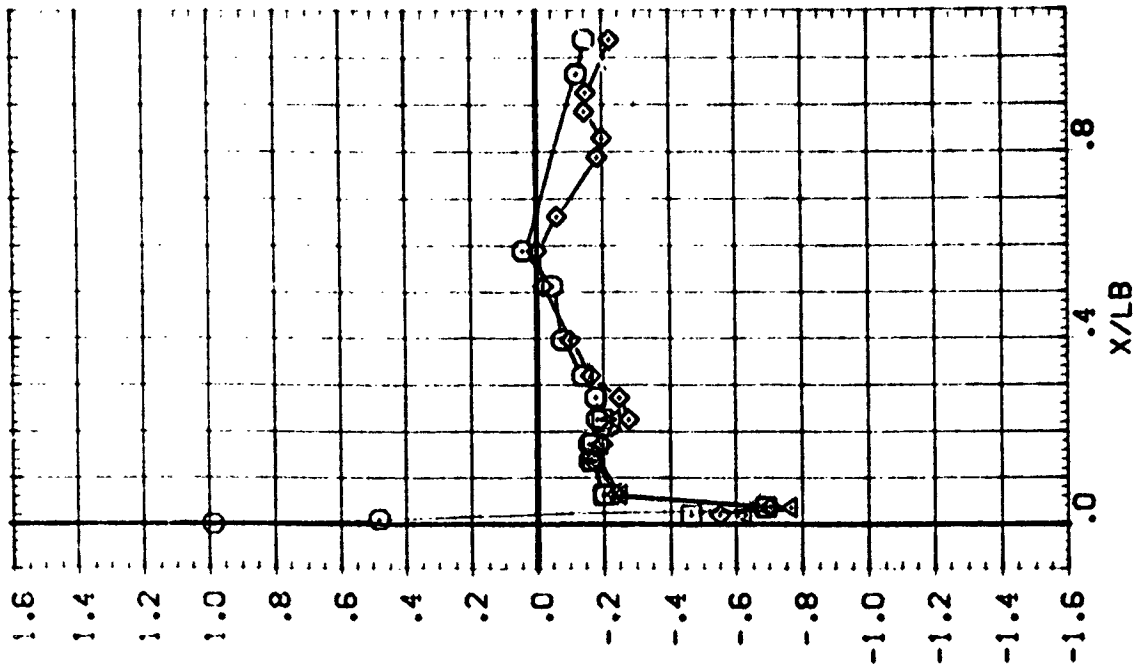
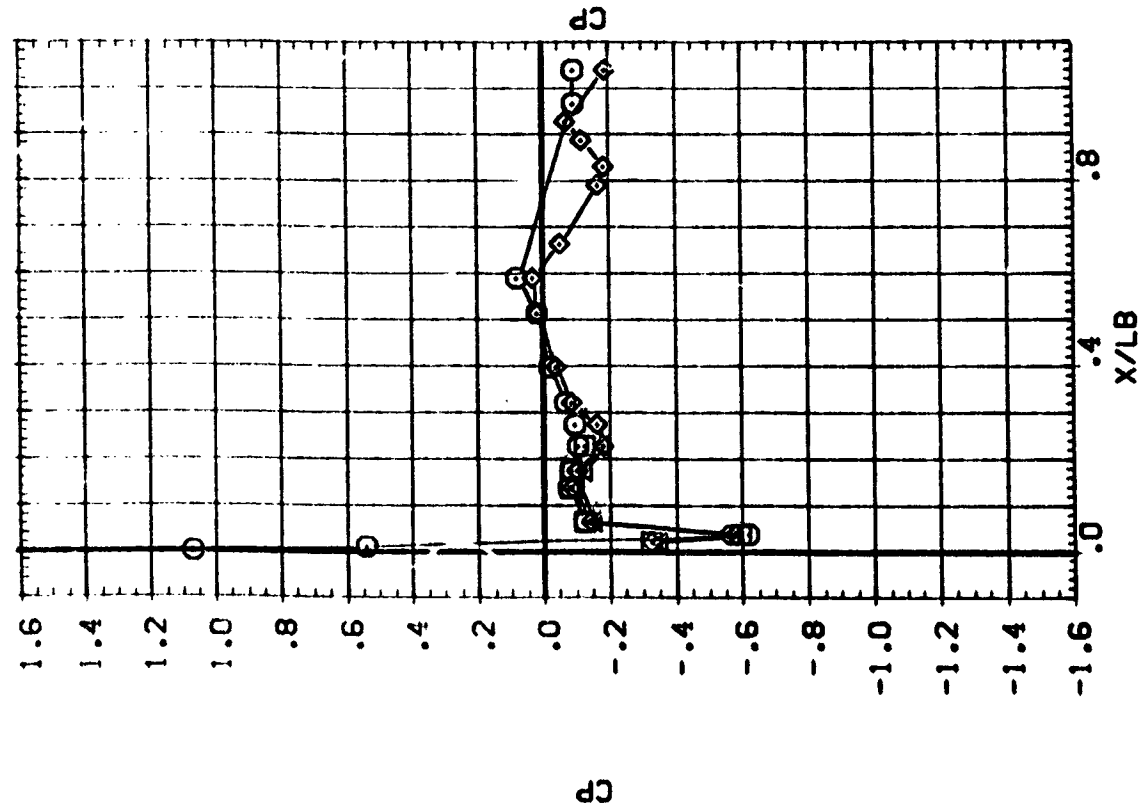
==

AVES 11-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (RBMB09)

SYMBOL
○ ○ ○
◇
△

PAI BETAT MACH
.000 4.080 .597
20.000 9.150
40.000
55.000

PARAMETRIC VALUES
ALPHA 4.000 0.000 .500
RDOSE 1.000 1.000 1.000
RDOSE 1.000 1.000 1.000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES



AMES 11-707 :A9 02A + S3 + T9 ORBITER FUSELAGE (RBMB09)

SYMBOL
 O
 □
 ◇
 △

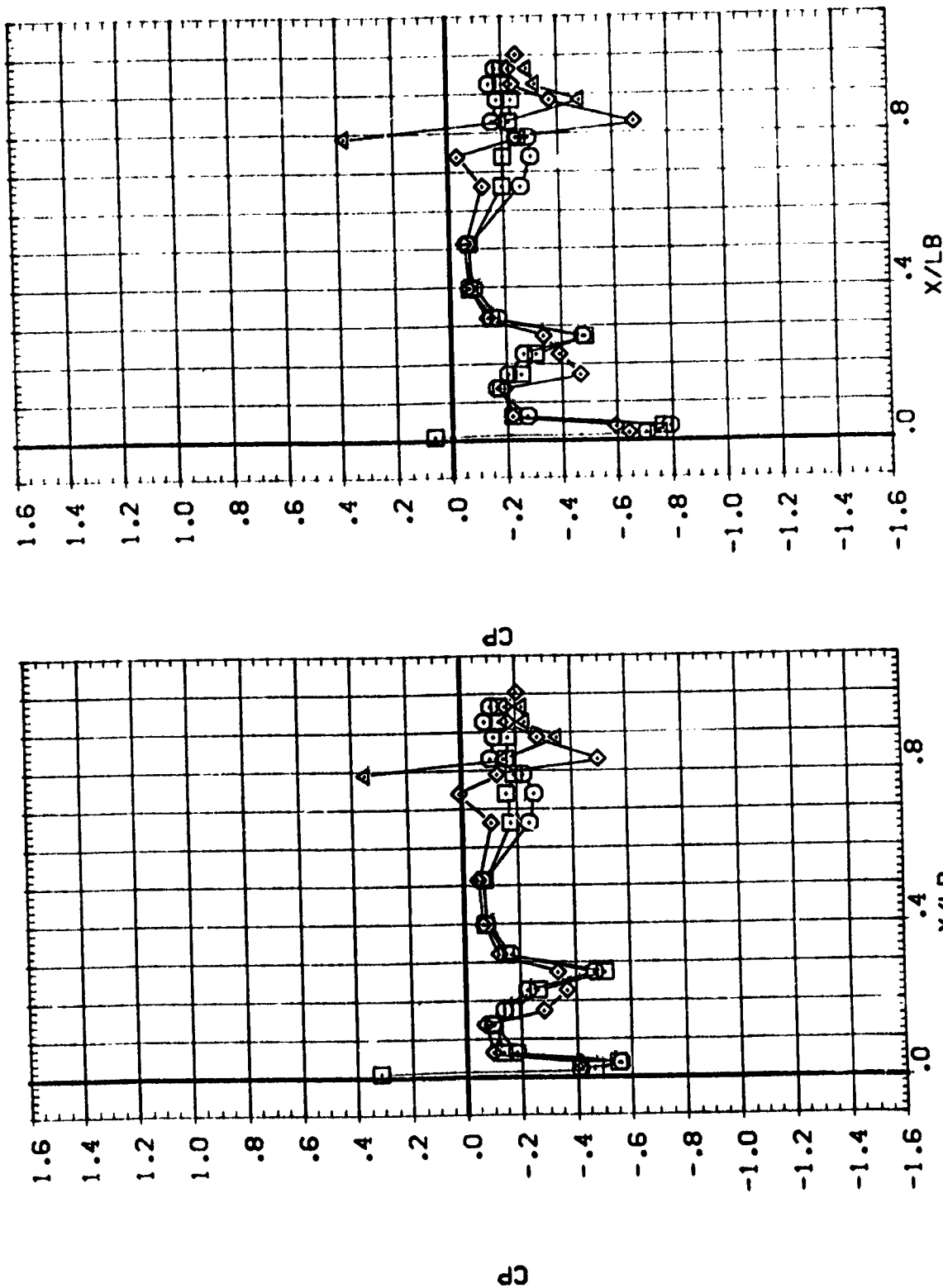
PHI 70.000
 90.000
 120.000
 135.000

BETAT 4.080
 8.150

MACH .597

PARAMETRIC VALUES
 ALPHAT 4.000
 RJOER .000
 RJOFLR .000

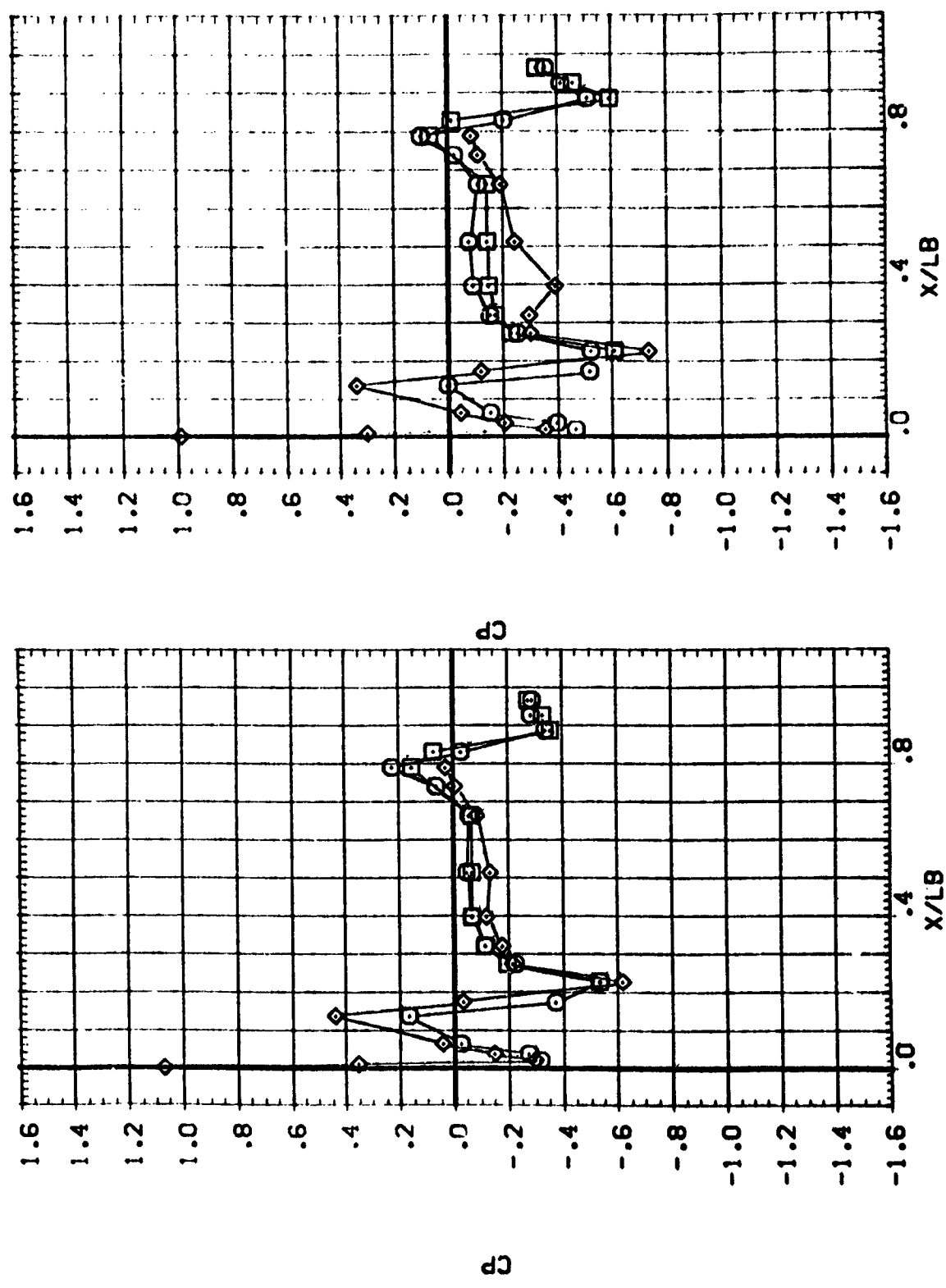
ORBITC .500
 ELEVON .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 11-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (RBM309)

SYMBOL	PHI	BETA	MACH	PARAMETRIC VALUES		
	150.000	4.080	.597	ALPHA	CRBINC	.500
	165.000	8.150		RUDER	.000	.000
	180.000			RUDFLR	.000	



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES



AMES 1:-707 IAG C2A + S3 + T9 ORBITER FUSELAGE (RBMB09)

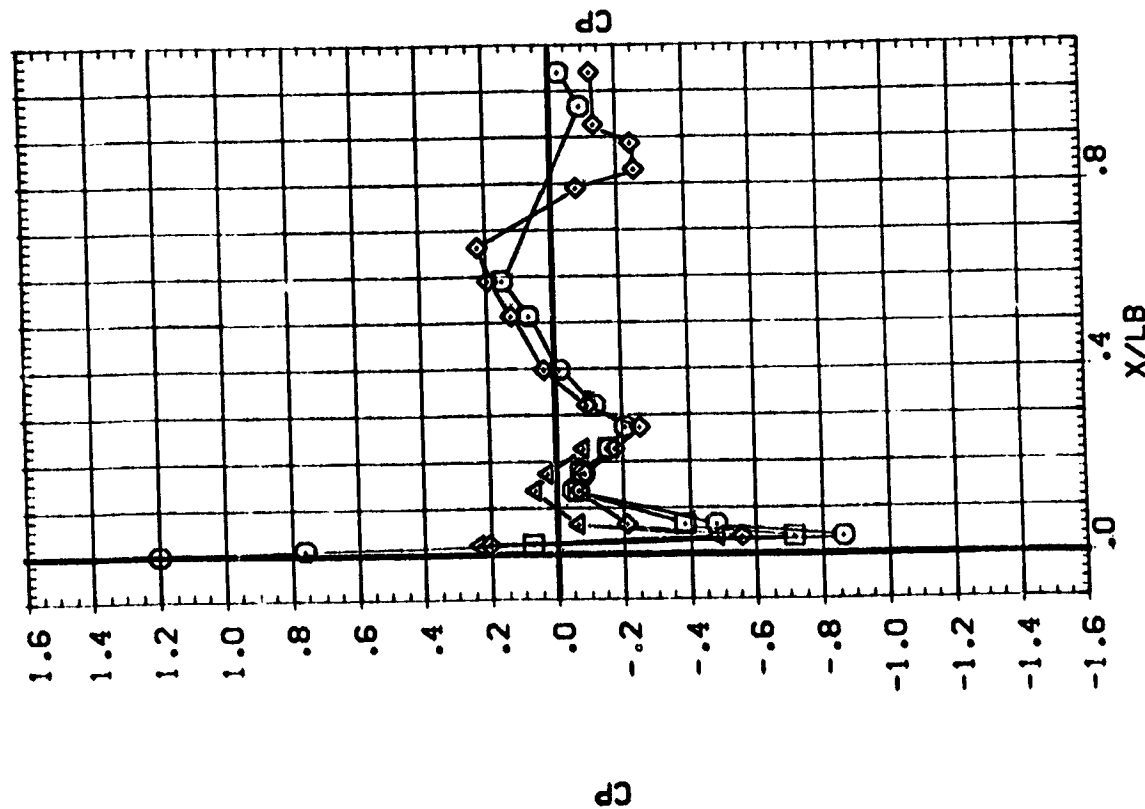
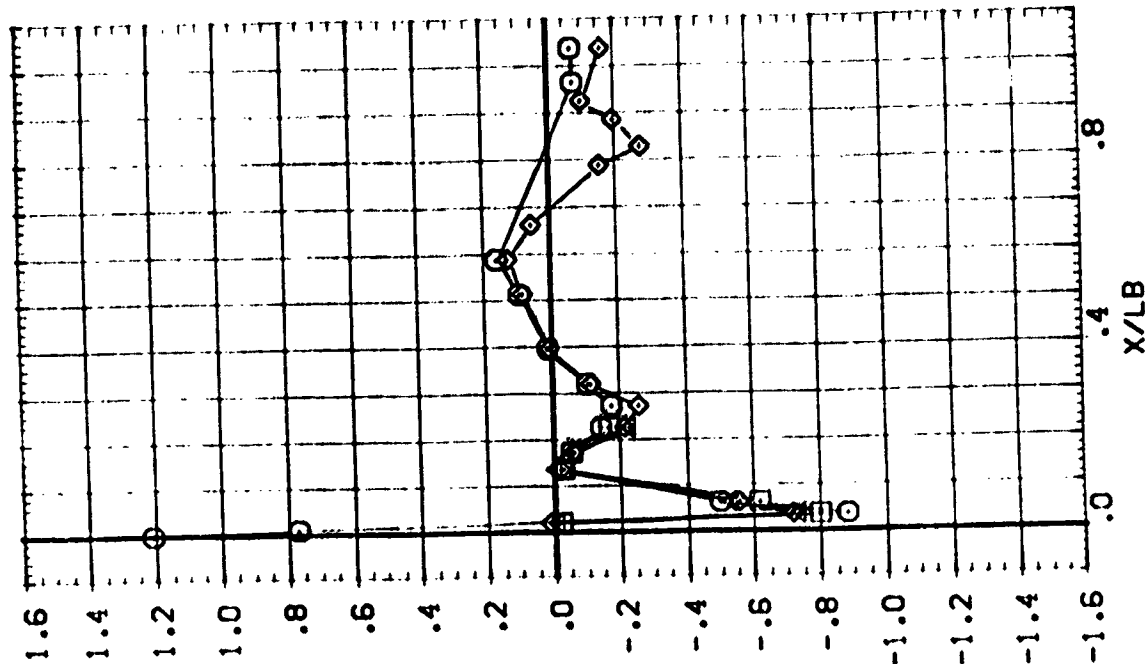
PARAMETRIC VALUES
 4.000 ORBINC
 .000 ELEVEN
 .500 .000

ALPHAT
 RUJER
 RUJFLR

BETAT
 -4.080
 2.070

PHI
 .000
 20.000
 40.000
 55.000

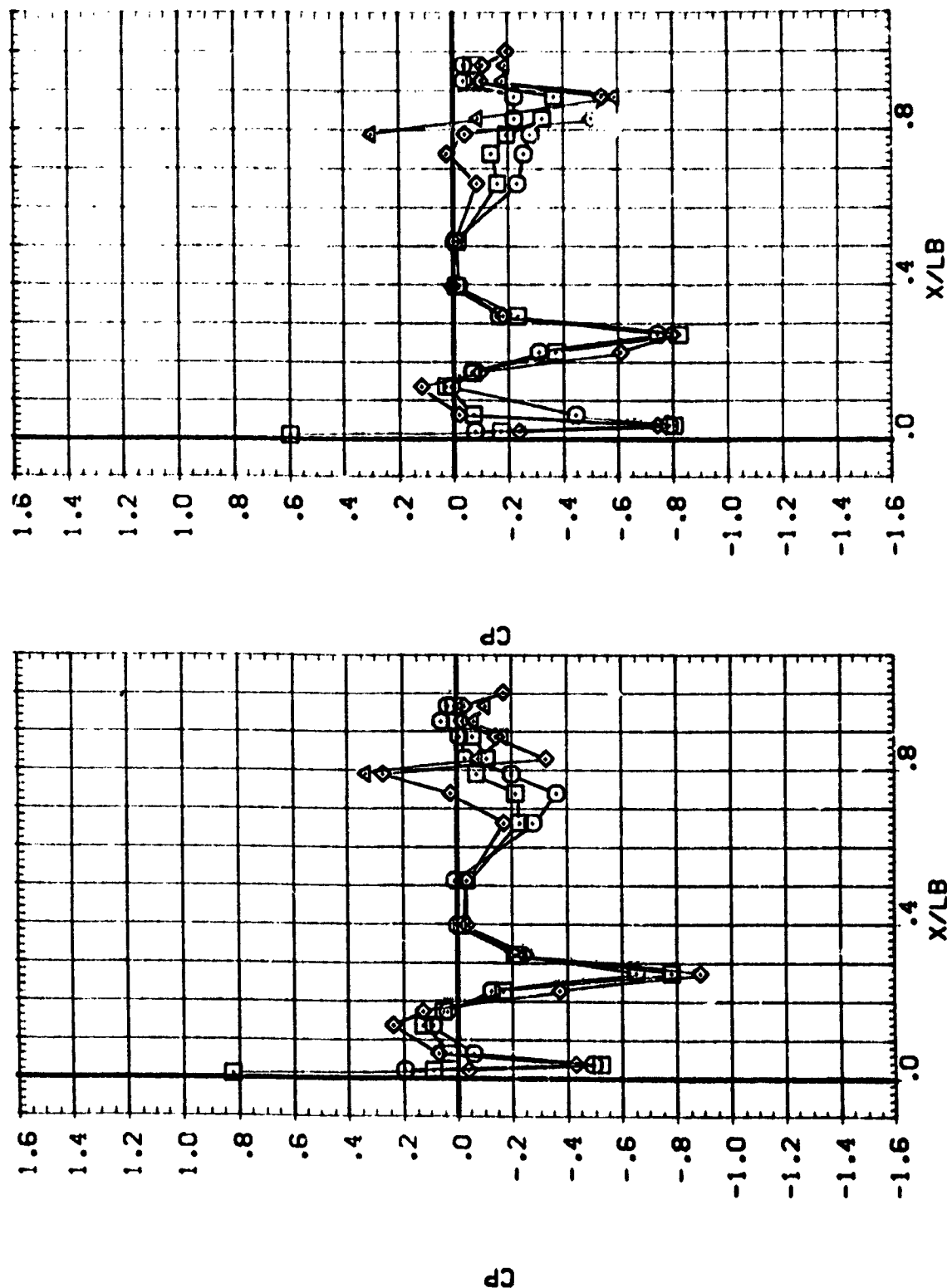
SYMBOL
 □
 ◇
 △



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 11-707 IAS C2A + S3 + T9 ORBITER FUSELAGE (RBM009)

SYMBOL	PHI	BETAT	MACH	PARAMETRIC VALUES
○	70.000	-4.080	.901	ALPHA 4.000
□	90.000	2.070		ORBIT INC .500
◇	120.000			RUDDER .000
△	135.000			ELEVON .000

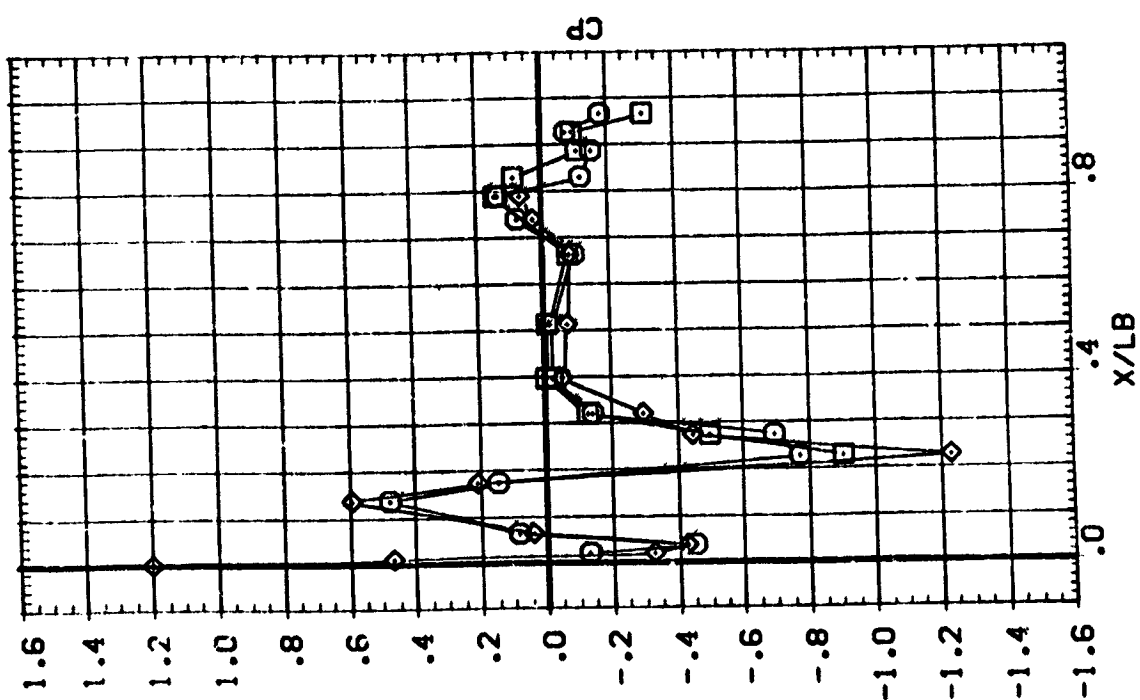
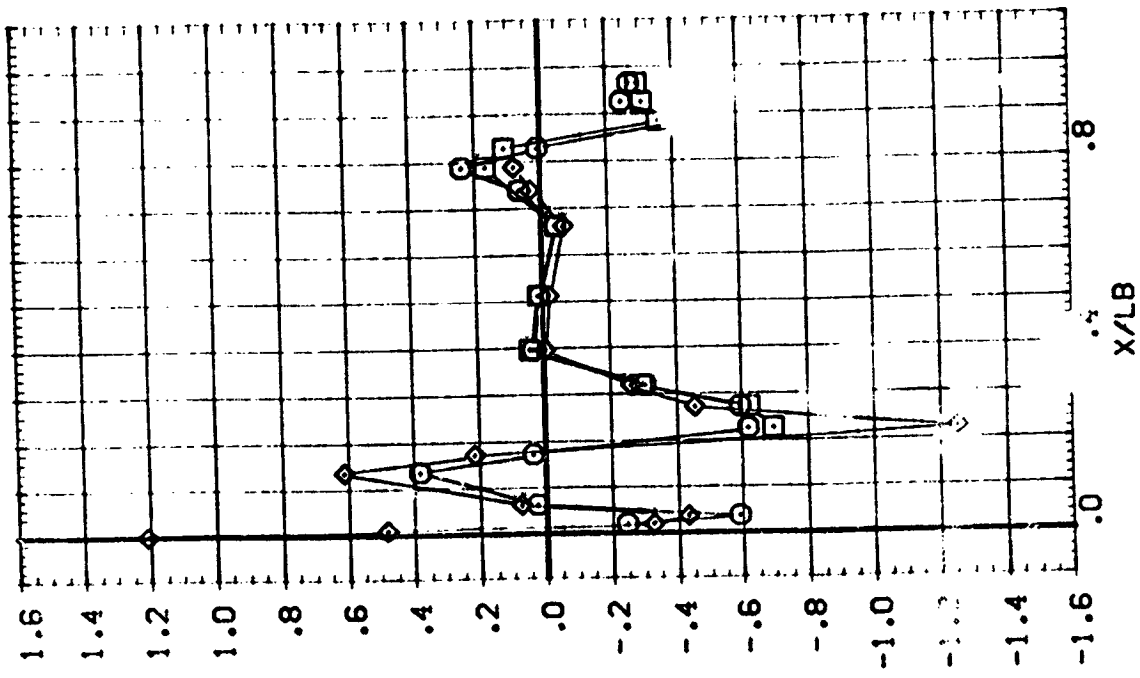


LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

PARAMETRIC VALUES
 4.000 ORBITAL
 .000 ELEVON
 .500

ALPHA1
 RUDDER
 RUDFLR

PHI 150.000
 165.000
 180.000
 BETAT -4.080
 2.070
 MACH .901



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

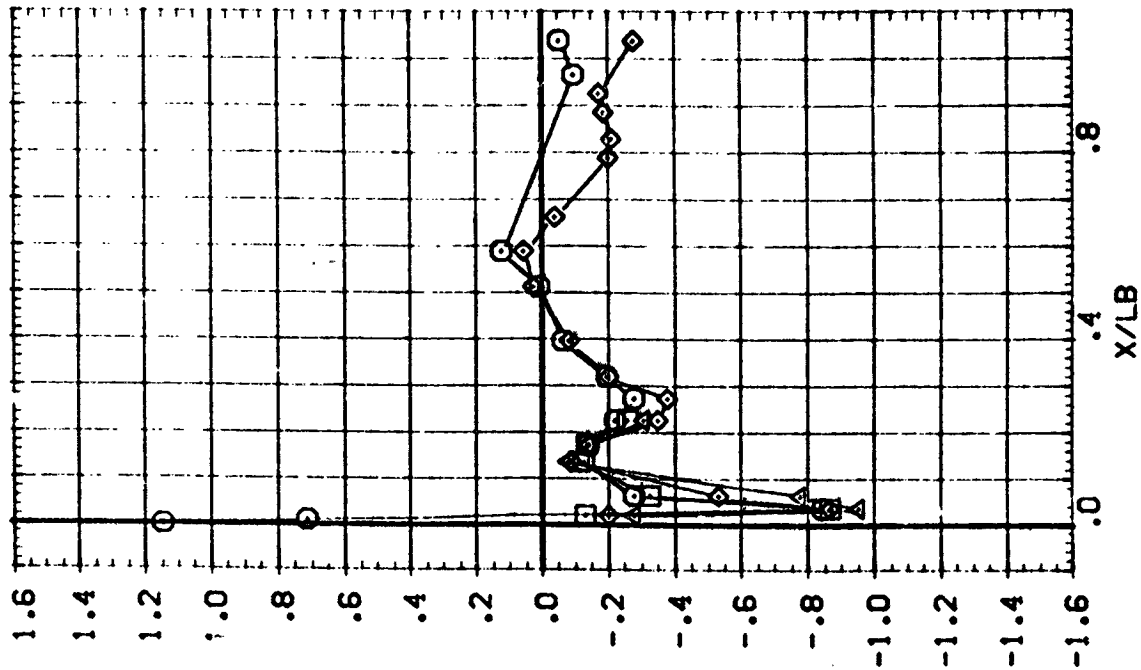
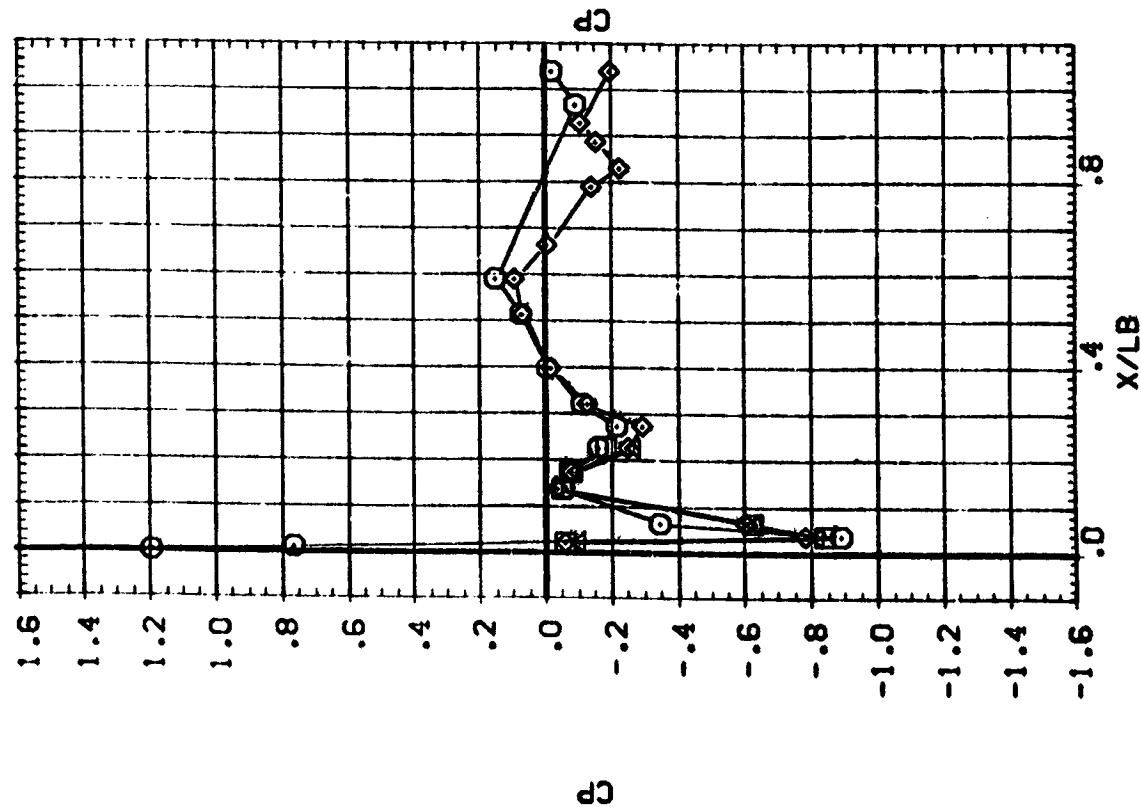
SYMBOL
 ○ □ ◇ △

PHI .000
 20.000
 40.000
 55.000

BETAT 4.130
 8.240

MACH .901

PARAMETRIC VALUES
 ALPHAT 4.000
 RUDDER .000
 RUDFLR .000
 DRBINC .500
 ELEVEN .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

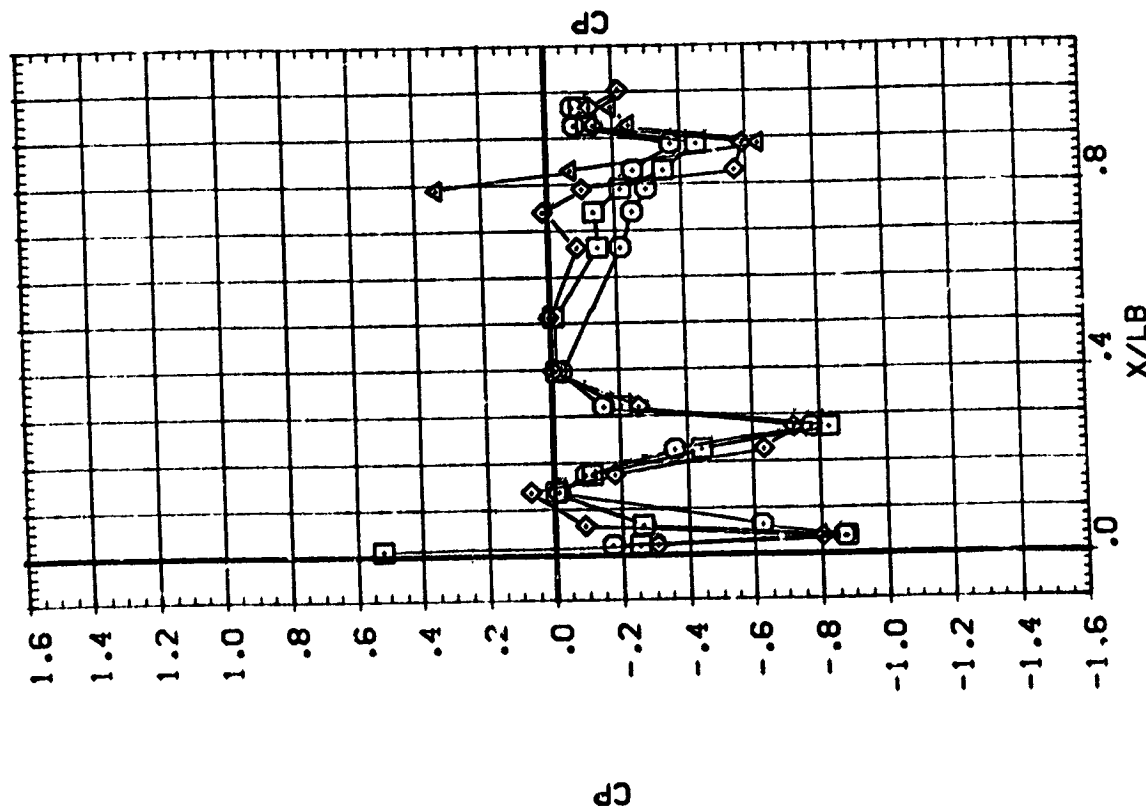
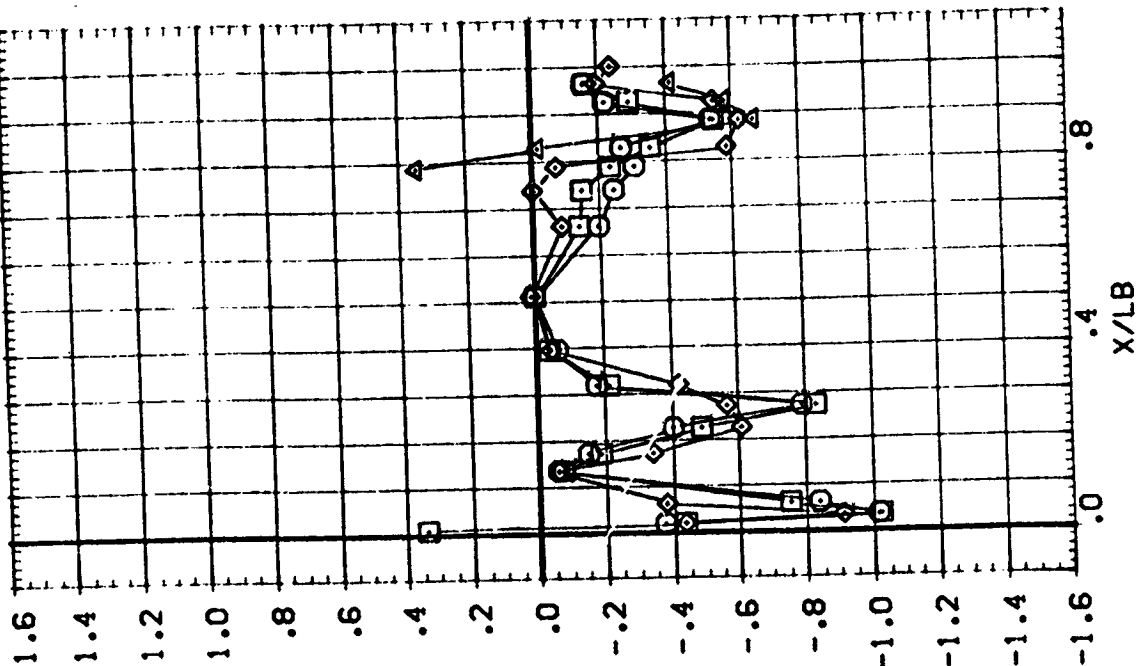
AMES 11-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (RBMB09)

SYMBOL
 ○ □ ◇ △

PHI
 70.000
 90.000
 120.000
 135.000

BETAT MACH
 4.130 .90
 8.24C

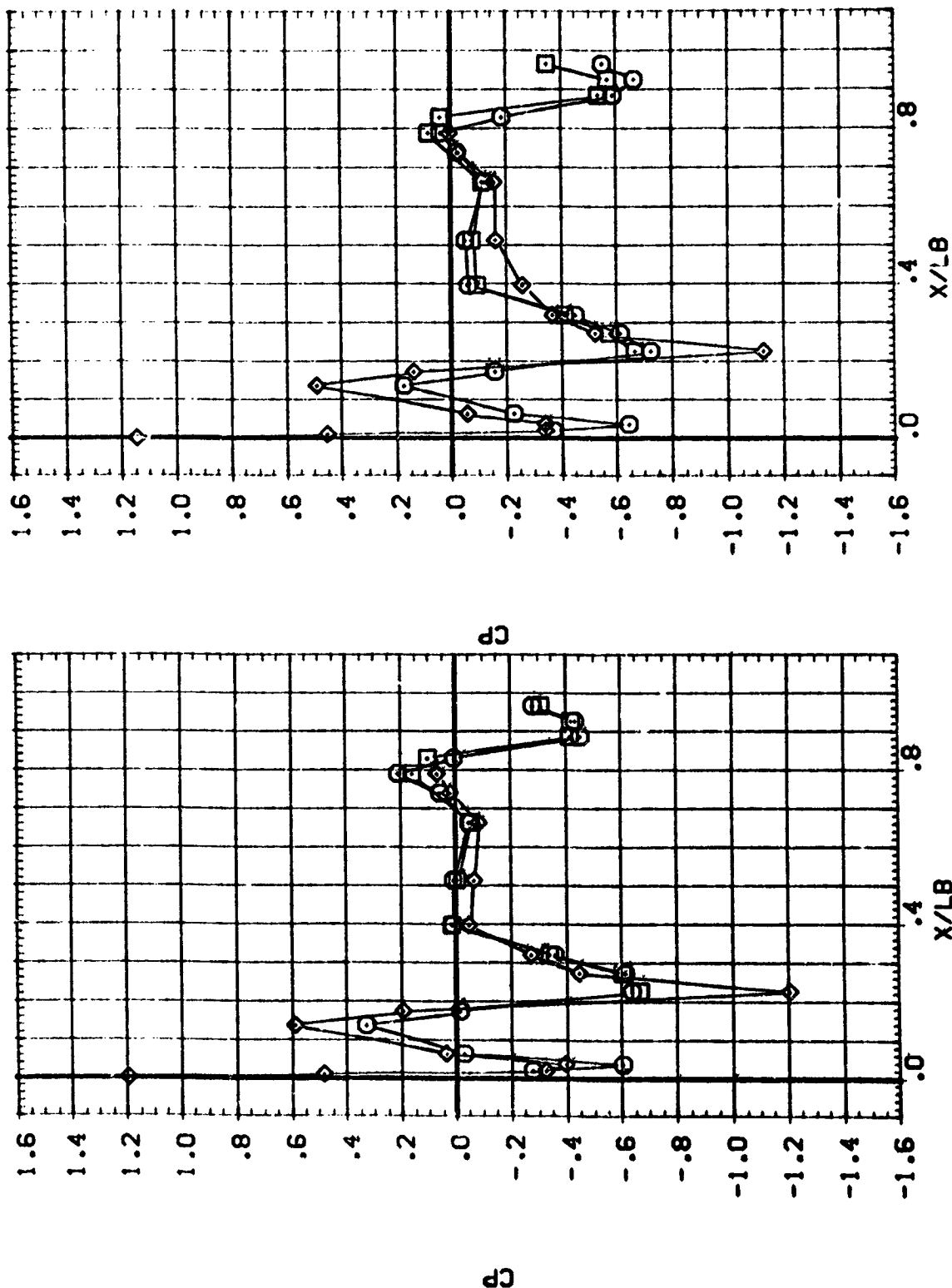
PARAMETRIC VALUES
 ALPHAAT 4.000 ORBINC .500
 PUDDER .000 ELEVON .000
 RUDFLR .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AVES 11-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (RBMB09)

SYMBOL	PHI	BETAT	MACH	PARAMETRIC VALUES
□	150.000	4.130	.901	ALPHAT 4.000 ORBINC .500
□	165.000	8.240		RUDER .000 ELEVON .000
◇	180.000			

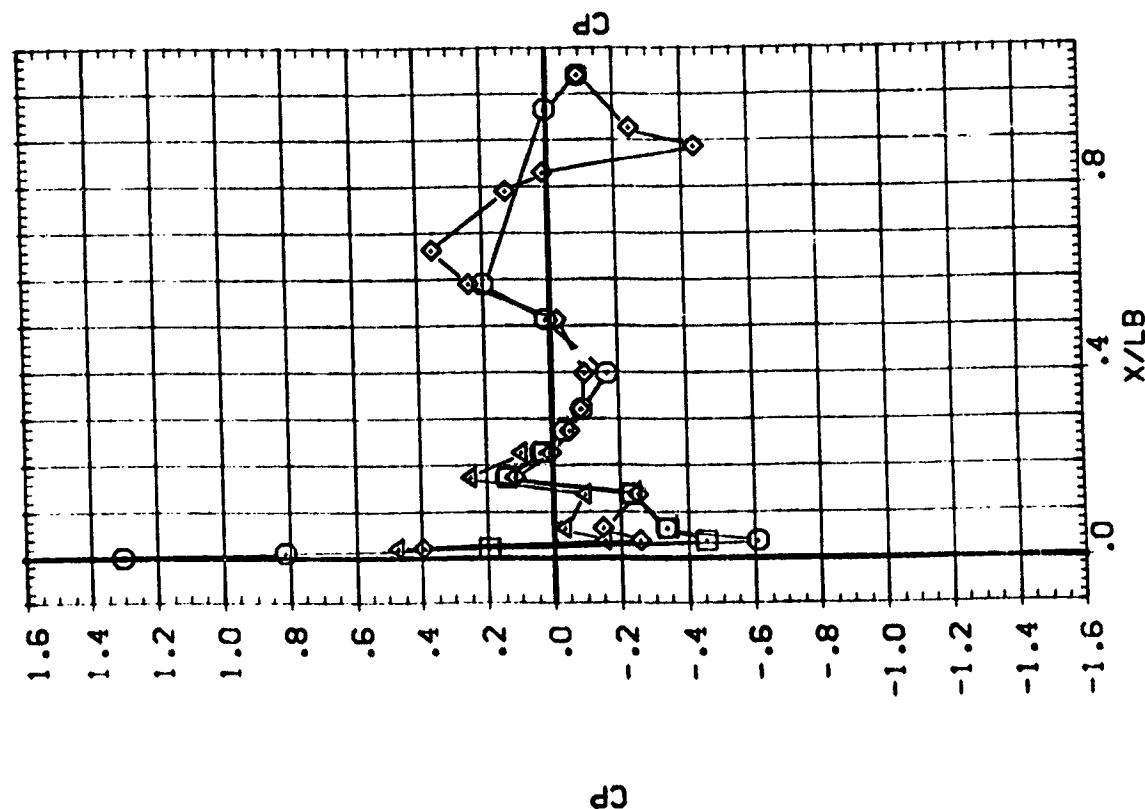
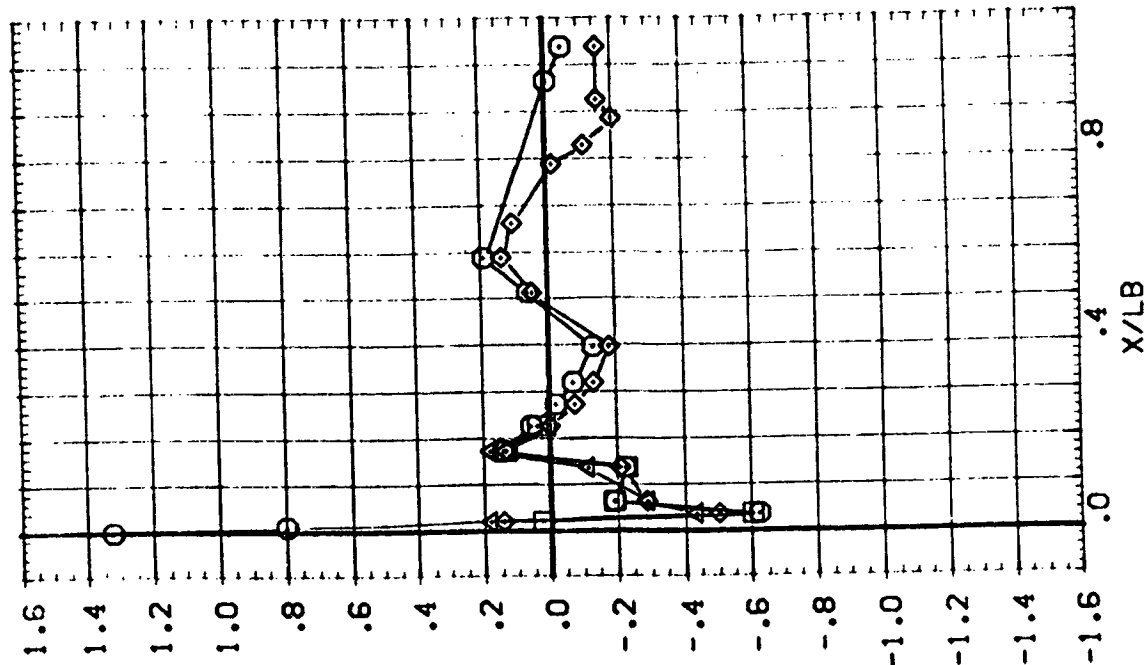


LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES



AMES 11-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (RBMB09)

SYMBOL	PVI	BETAT	MAC	PARAMETRIC VALUES			
				ALPHAT	RJDER	RJFLR	
○	.000	-4.080	1.1.3	4.000	.000	.000	.500
□	20.000	2.080		.000	.000	.000	.000
◇	40.000						
△	55.000						

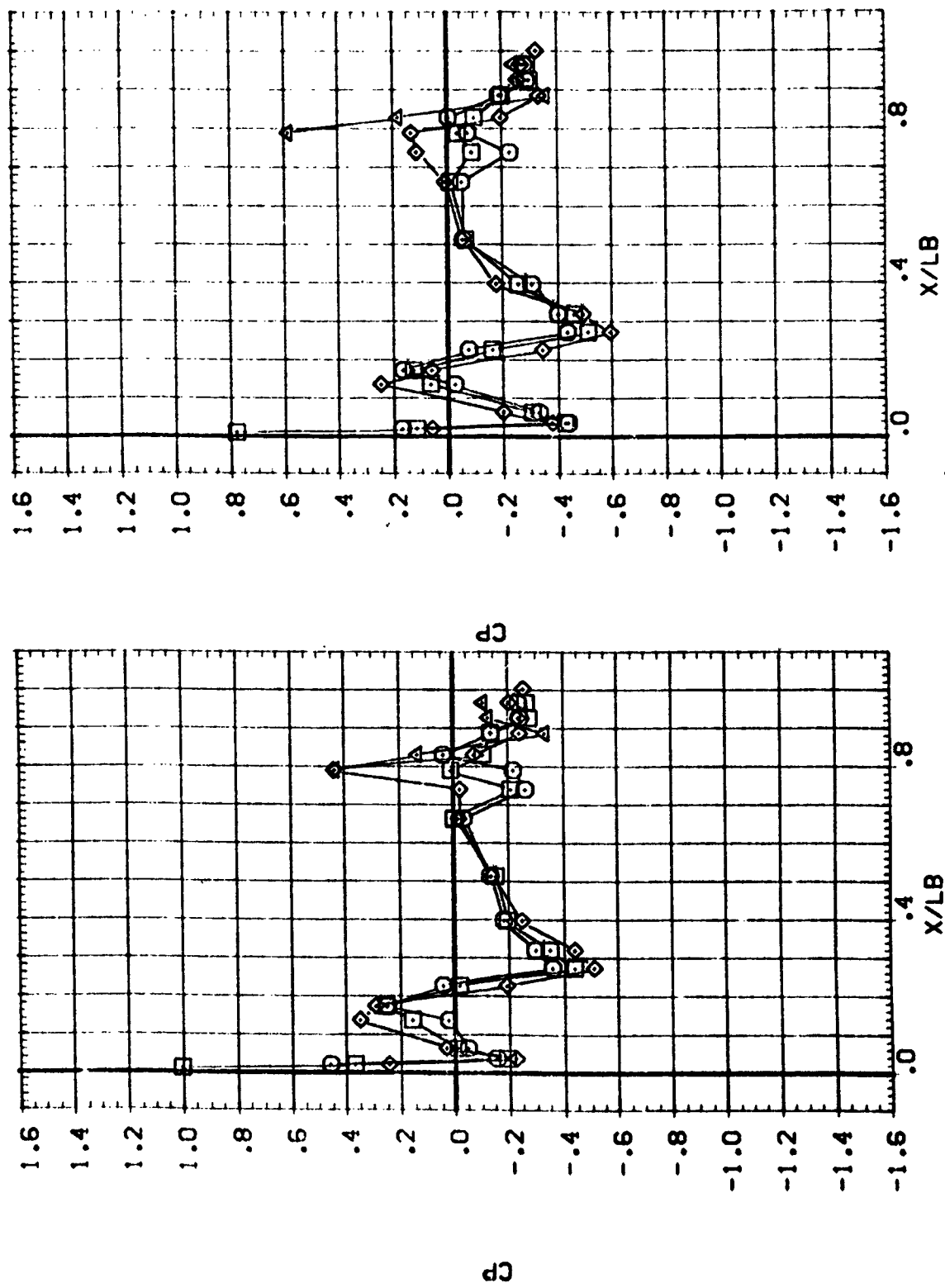


LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

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AMES 11-707 1A9 02A + S3 + 19 ORBITER FUSELAGE (RBMB09)

SYMBOL	PHI	BETA	MACH	PARAMETRIC VALUES
○	70.000	-4.080	1.103	ALPHA
□	90.000	2.080		4.000
◇	120.000			ORBITING
△	135.000			.000
				ELEVATION
				.000
				RJDFLR
				.000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES



AMES 11-707 :A9 C2A + S3 + T9 ORBITER FUSELAGE (R9MB09)

SYMBOL
O
I
◇

PMI
150.000
165.000
180.000

BETAT
-4.080
2.080

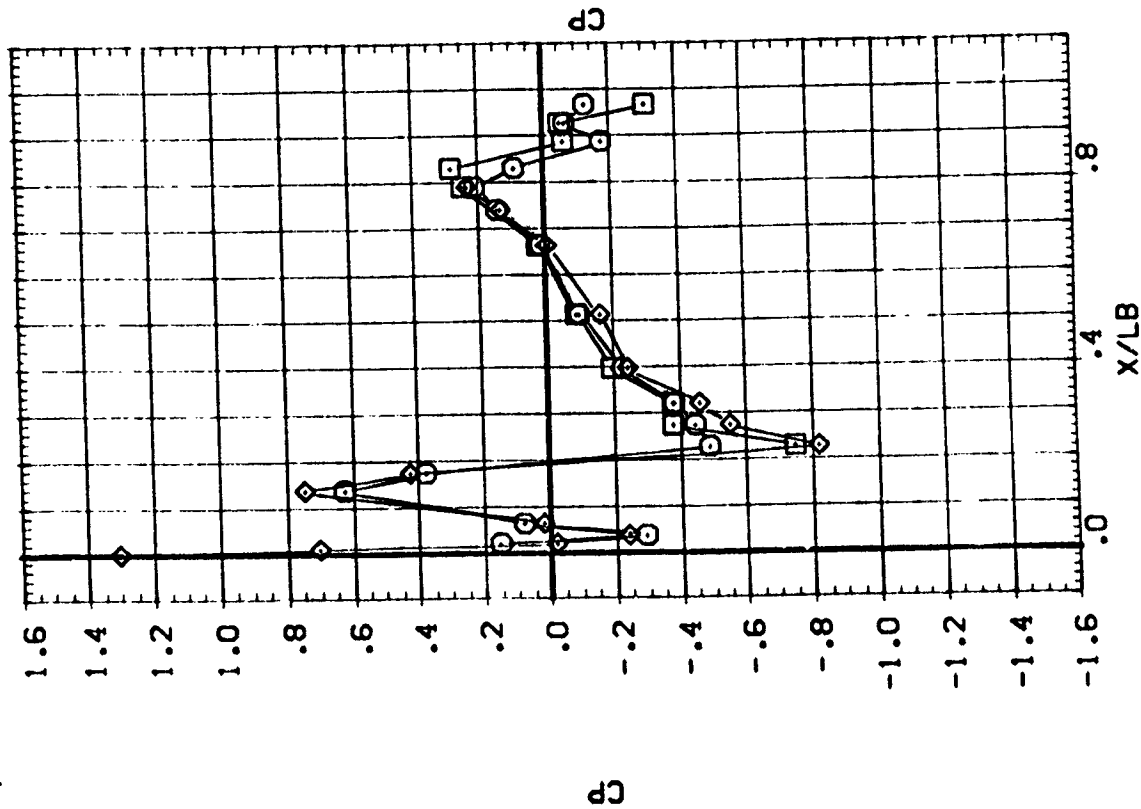
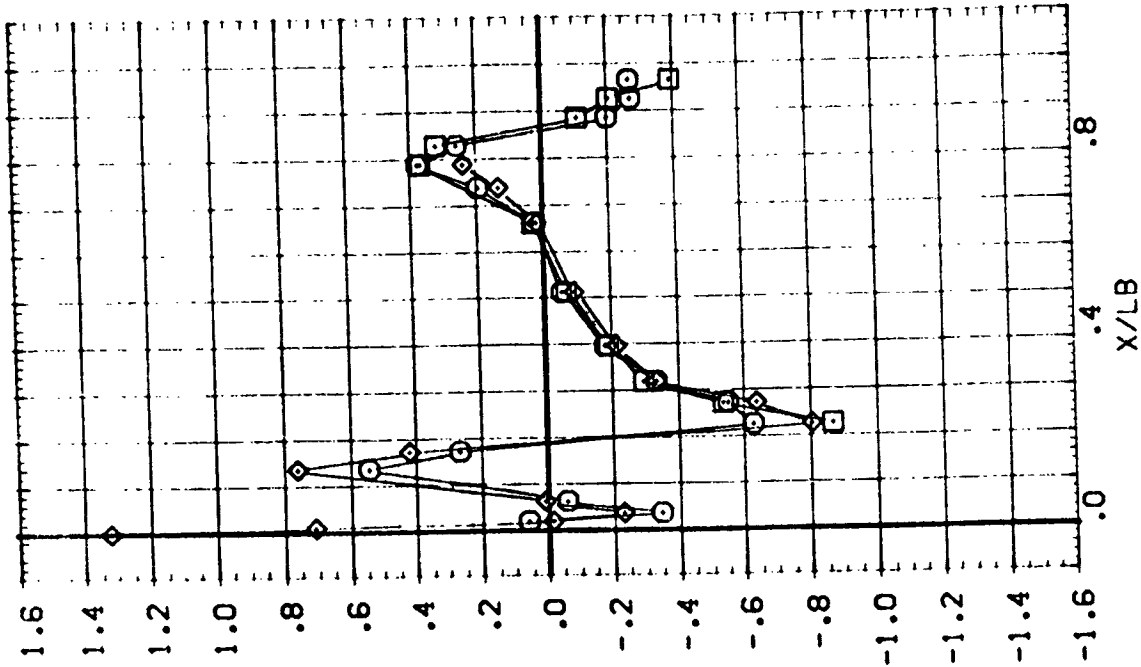
MACH
1.103

PARAMETRIC VALUES
ALPHAT
RUDGER
RUDFLR

4.000
.000
.000

ORBITING
ELEVON

.500
.000



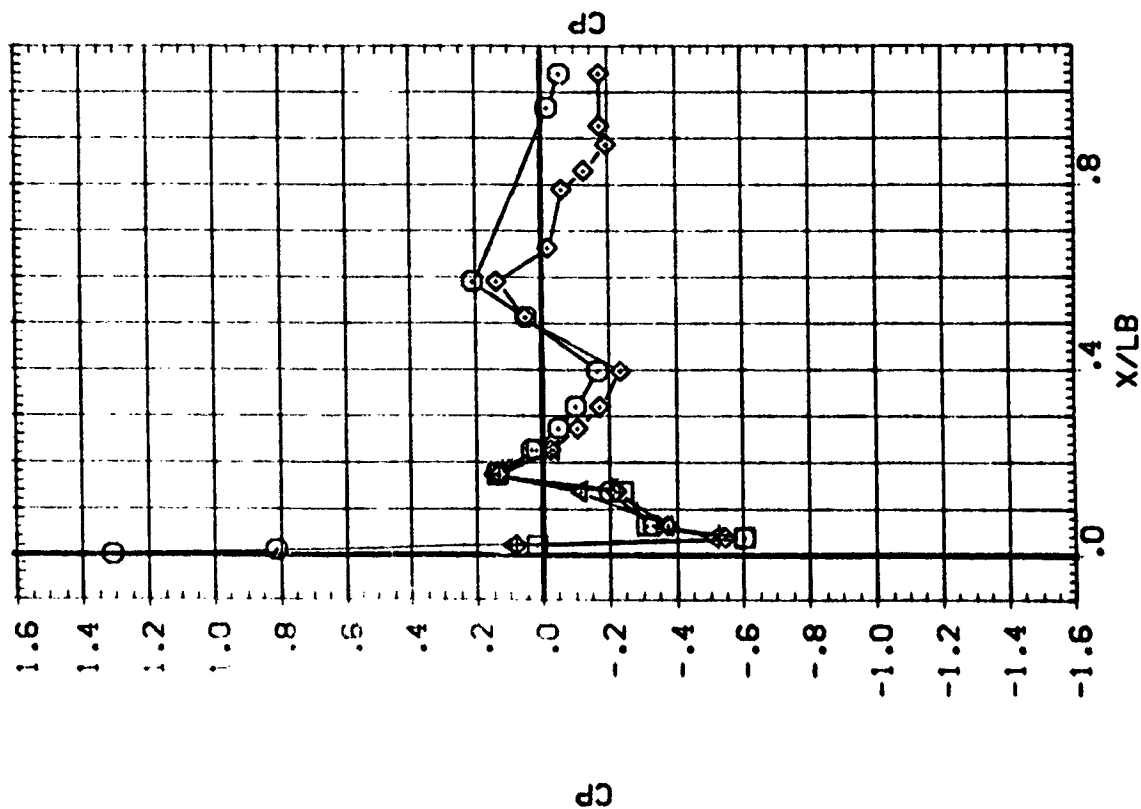
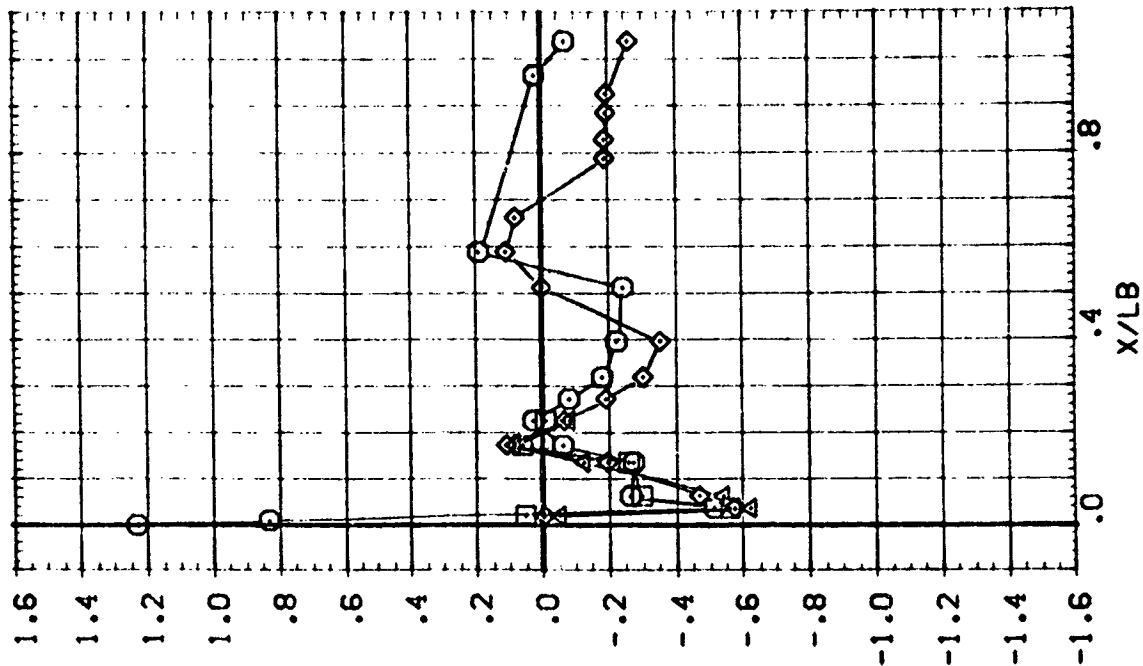
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 11-707 1A9 02A + S3 + 19 ORBITER FUSELAGE (RBM309)

PARAMETRIC VALUES
 ALPHAT 4.000 ORBITING .500
 RUDDER .000 ELEVON .000
 RUDDER .000

SYMBOL
 ○ 0.000
 □ 20.000
 ◇ 40.000
 △ 55.000

BETA° 4.140
 MACH 1.103
 8.260

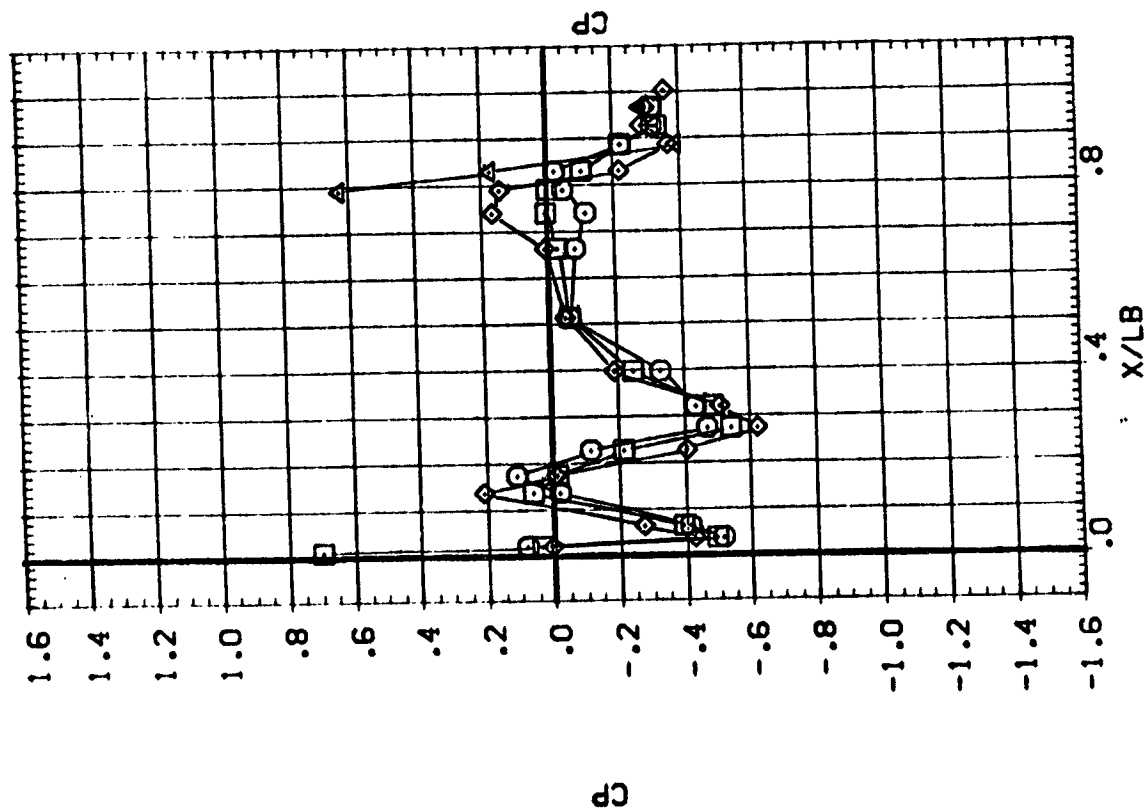
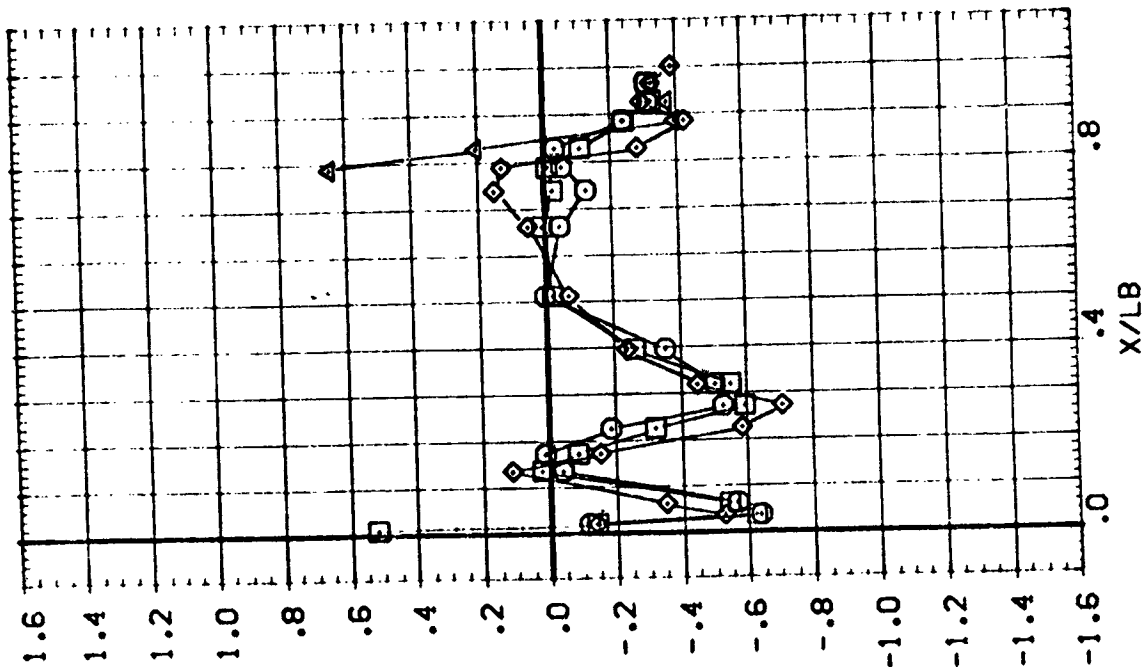


LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

ANFS 11-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (RBM809)

PARAMETRIC VALUES
 ALPHA 4.000 ORBITING .500
 RUDDER .000 ELEVON .000
 RUDDER .000

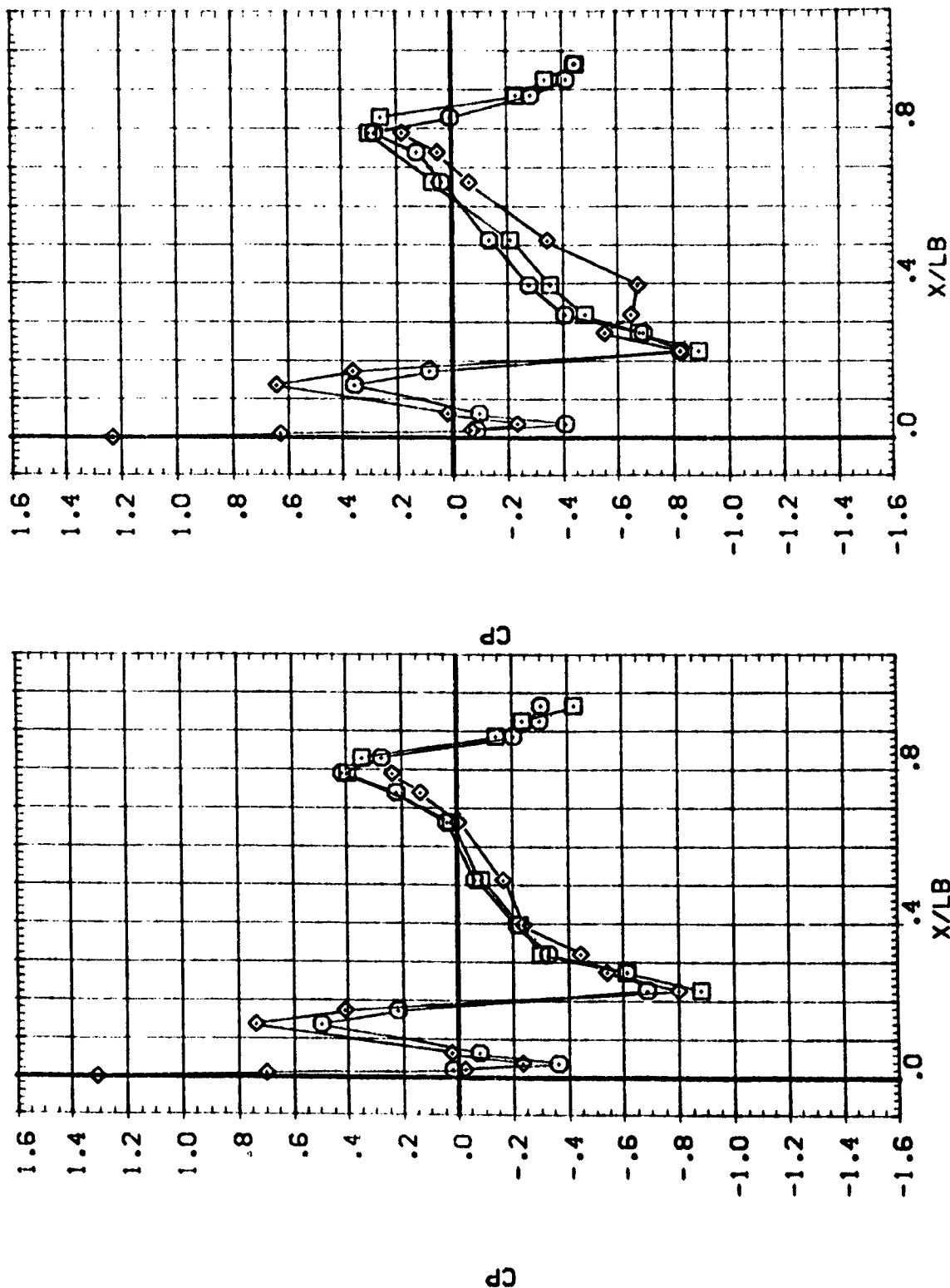
SYMBOL
 70.000
 90.000
 120.000
 135.000
 BETAT 4.140
 MACH 1.103
 8.260



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AVES 11-707 1A9 02A + S3 + 19 ORBITER FUSELAGE (RBMB09)

SYMBOL	PHI	BETA	MACH	PARAMETRIC VALUES			
				ALPHA	ORBITAL	ORBITAL	ORBITAL
150.000	4.140	1.103		4.000	ORBITAL	ORBITAL	ORBITAL
165.000	8.260			.000	ELEVATION	ELEVATION	ELEVATION
180.000				.000			



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES



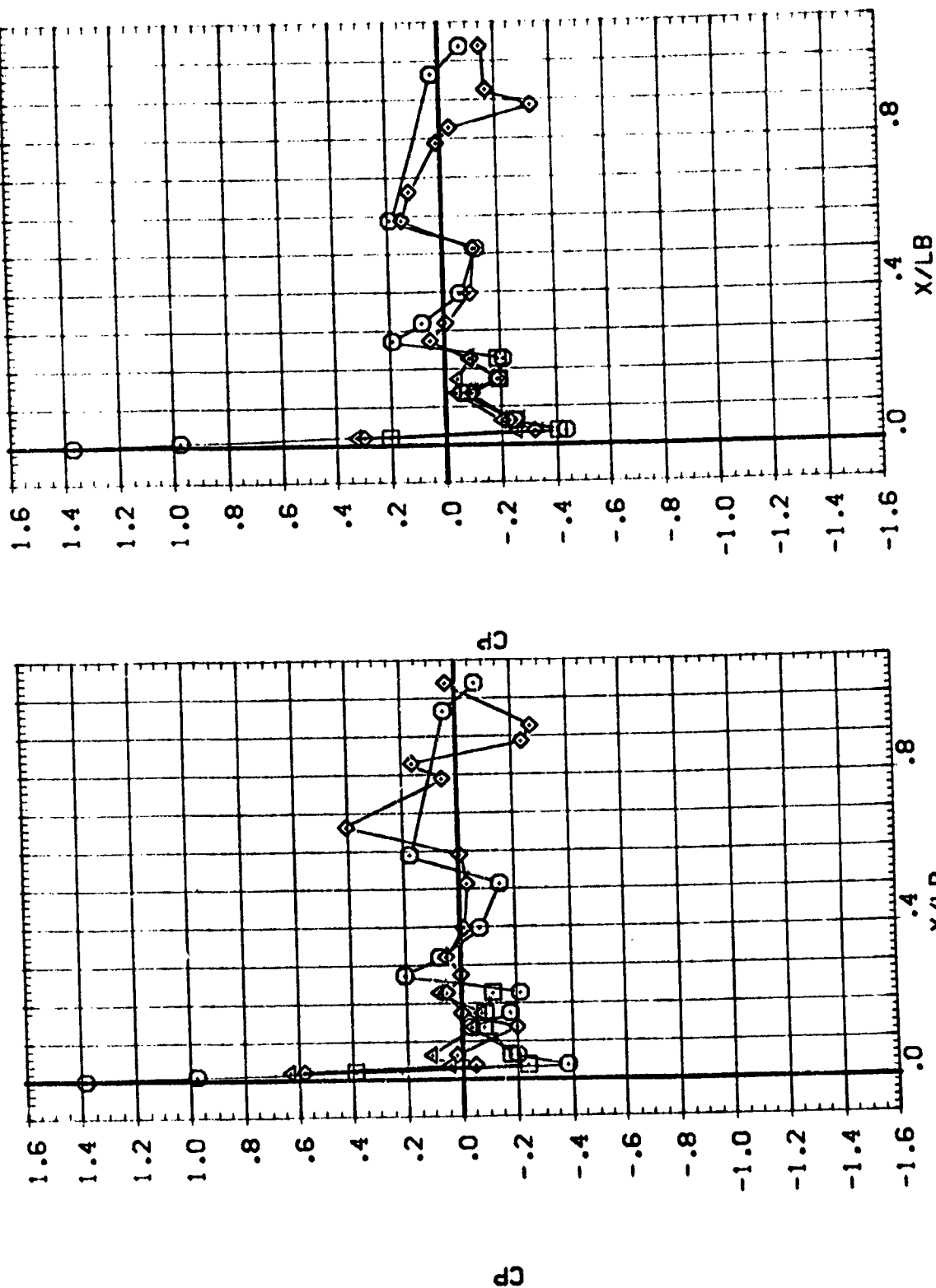
AMES 11-707 1A9 C2A + S3 + T9 ORBITER FUSELAGE (RBM909)

SYMBOL
 ○ □ △

PHI
 .000
 20.000
 40.000
 55.000

BETAT MACH
 -4.060 1.249
 2.070

PARAMETRIC VALUES
 ALPHAT 4.000 ORBITNC .500
 RUDDER .000 ELEVON .000
 RUJFLR .000



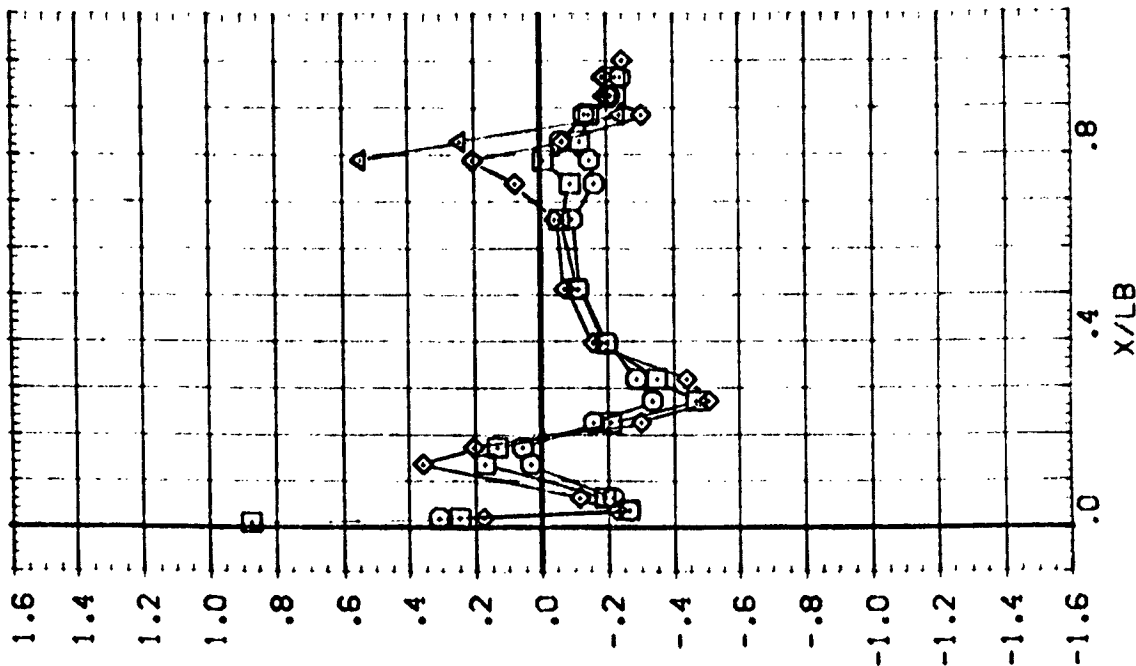
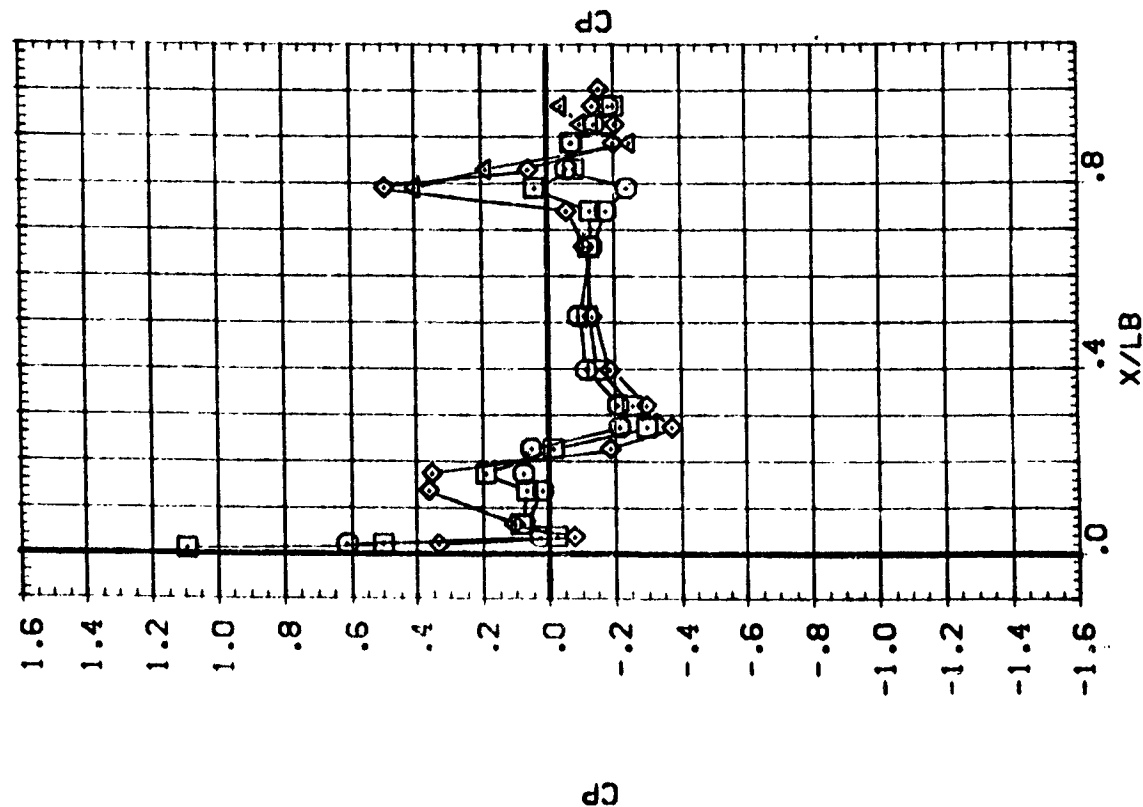
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 11-707 1A9 02A + S3 + 19 ORBITER FUSELAGE (RBM909)

SYMBOL
 O
 □
 ◇
 △

Re: 70.000 90.000 120.000 135.000
 BETAT -4.060 2.070
 MACH 1.249

PARAMETRIC VALUES
 ALPHAT 4.000 0.000 .500
 RUDDER .000 .000 .000
 RUDFLR .000 .000 .000

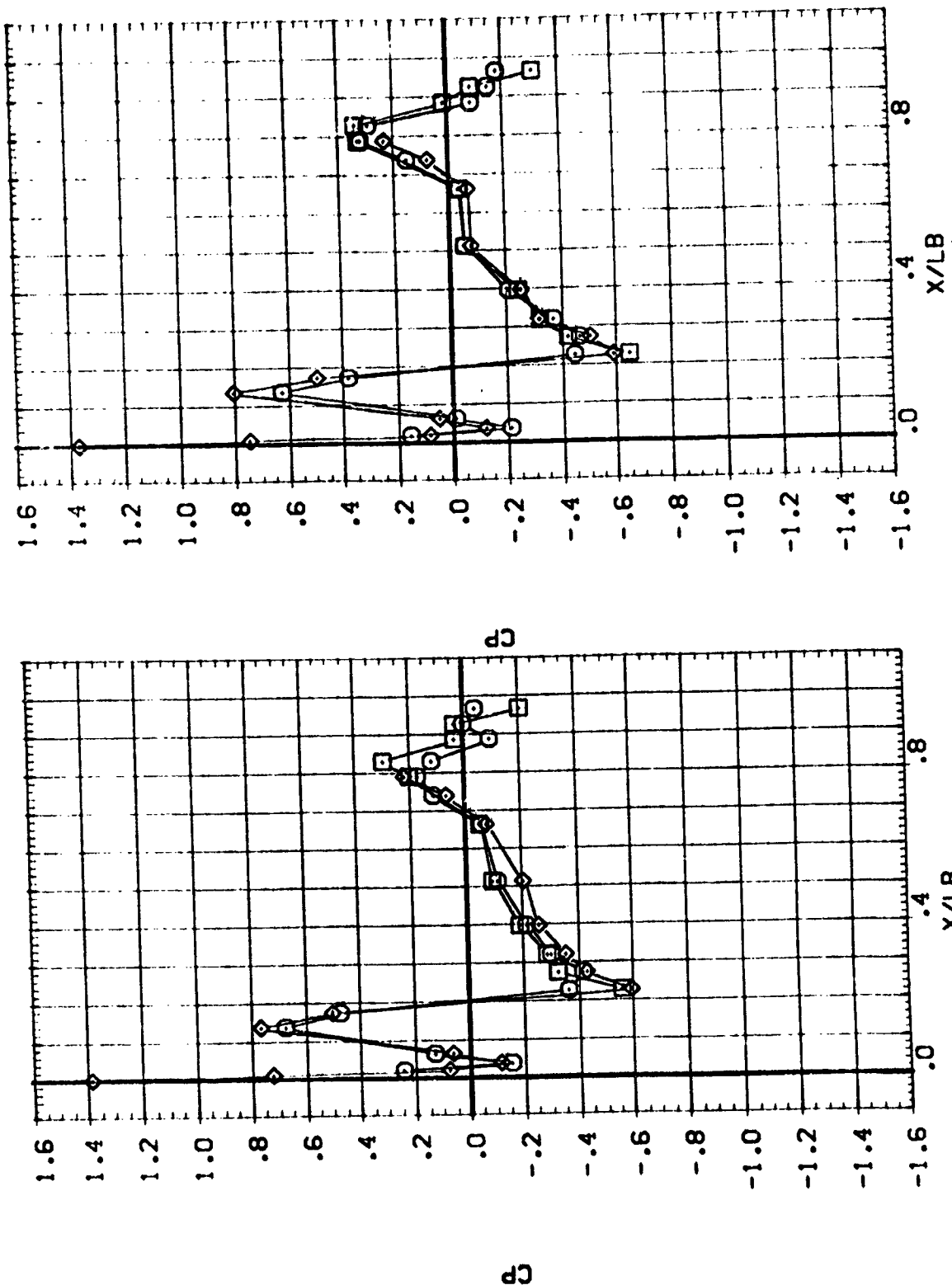


LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES



AMES 11-707, IAS C2A + S3 + 19 ORBITER FUSELAGE (RBM809)

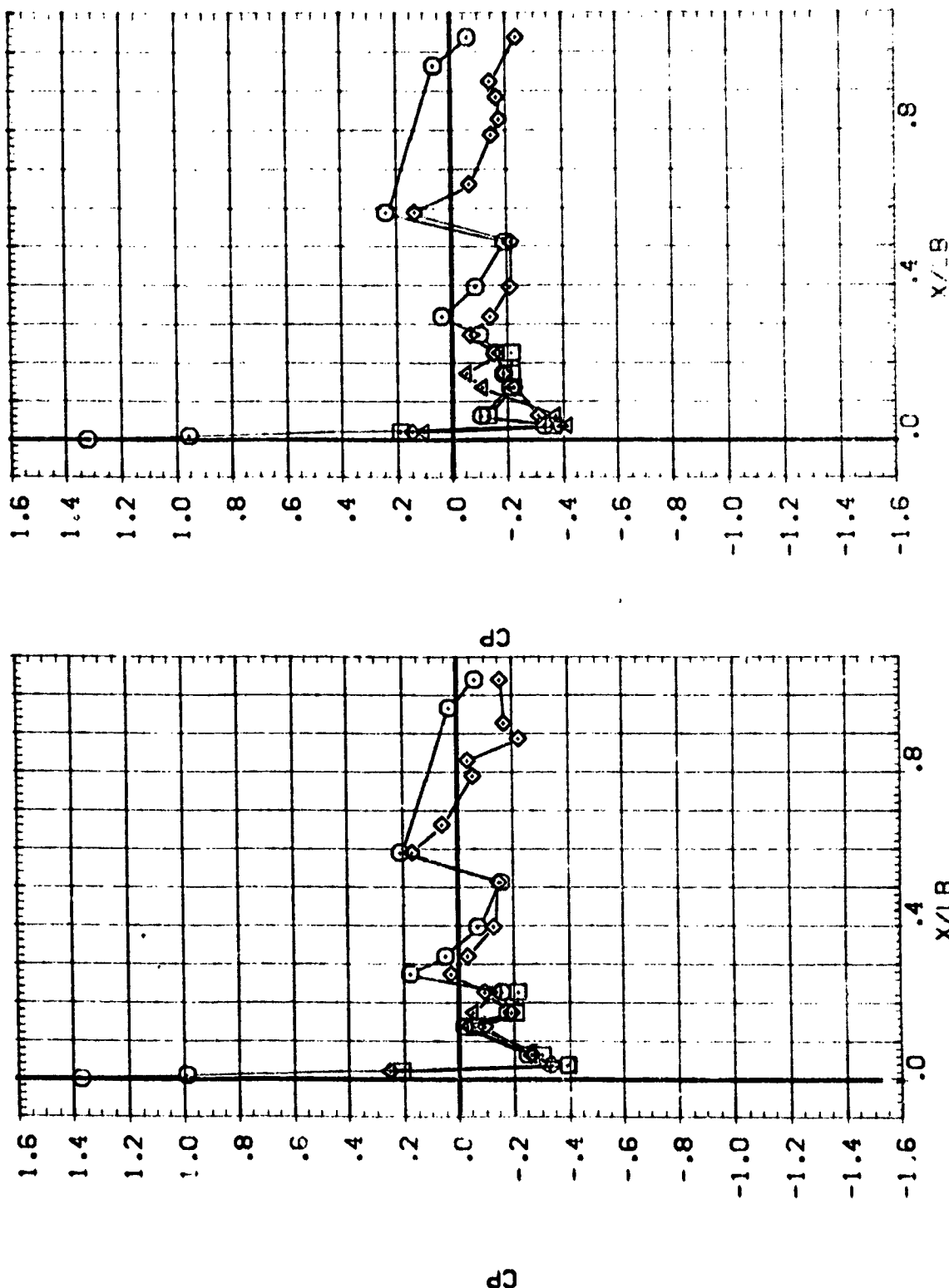
PHI	BETAT	MACH	PARAMETRIC VALUES
150.000	-4.060	1.249	ALPHAT
165.000	2.070		RUDDER
180.000			RUDLER
			CRBINC
			ELEVON



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 11-707 :A9 C2A + S3 + T9 ORBITER FUSELAGE (RBMB09)

SYMBOL	PHI	BETAT	MACH	PARAMETRIC VALUES
○	.000	4.110	1.249	ALPHAT 4.000
□	20.000	8.210		ORBIT NC .500
◇	40.000			RJDDER .000
△	55.000			ELEVON .000
				RJDFLR .000



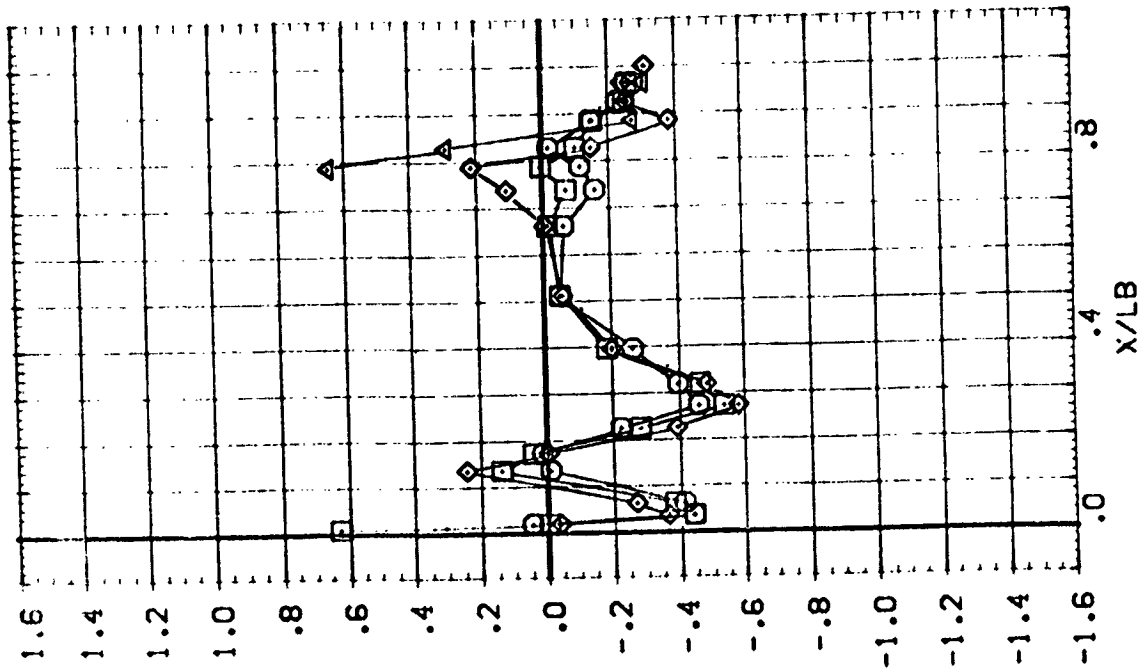
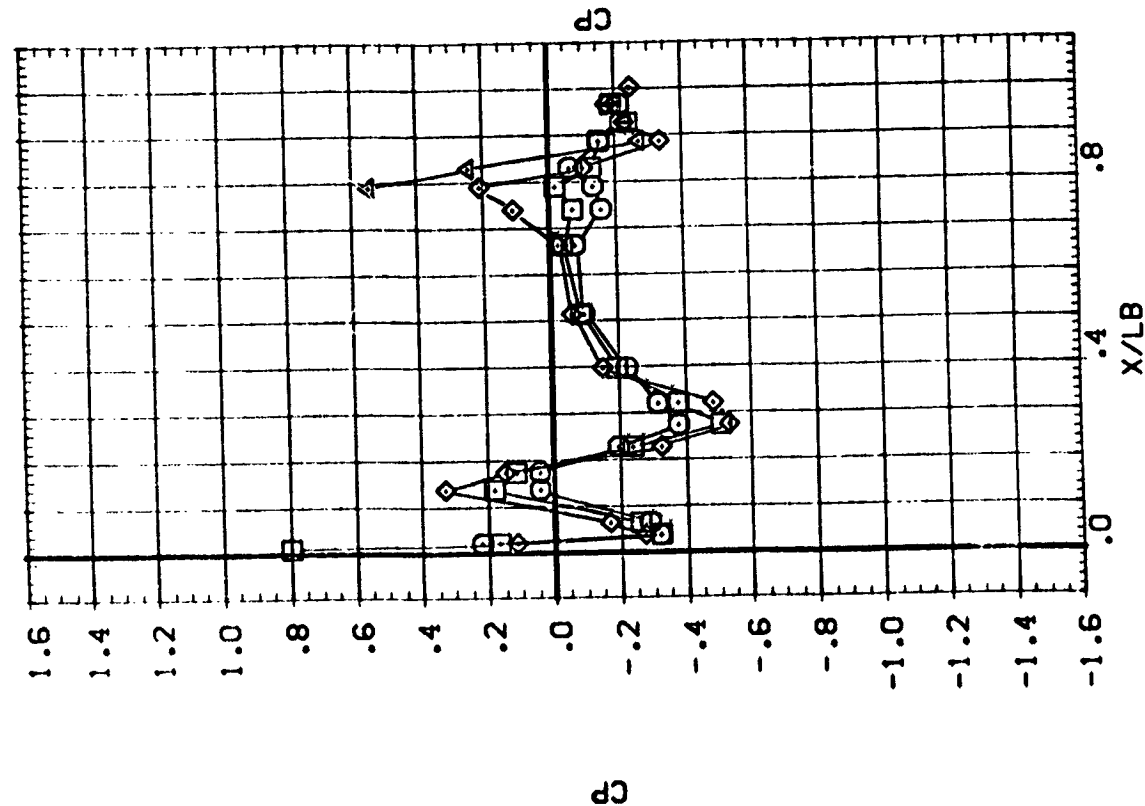
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AVES 11-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (RBMB09)

SYMBOL
 ○ □ ◇ △

PM 70.000 4.11C 1.249
 90.000 8.21C
 120.000
 135.000

PARAMETRIC VALUES
 ALPHAT 4.000 CRBINC .500
 RUOER .000 ELEVEN .000
 RUOFLR .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

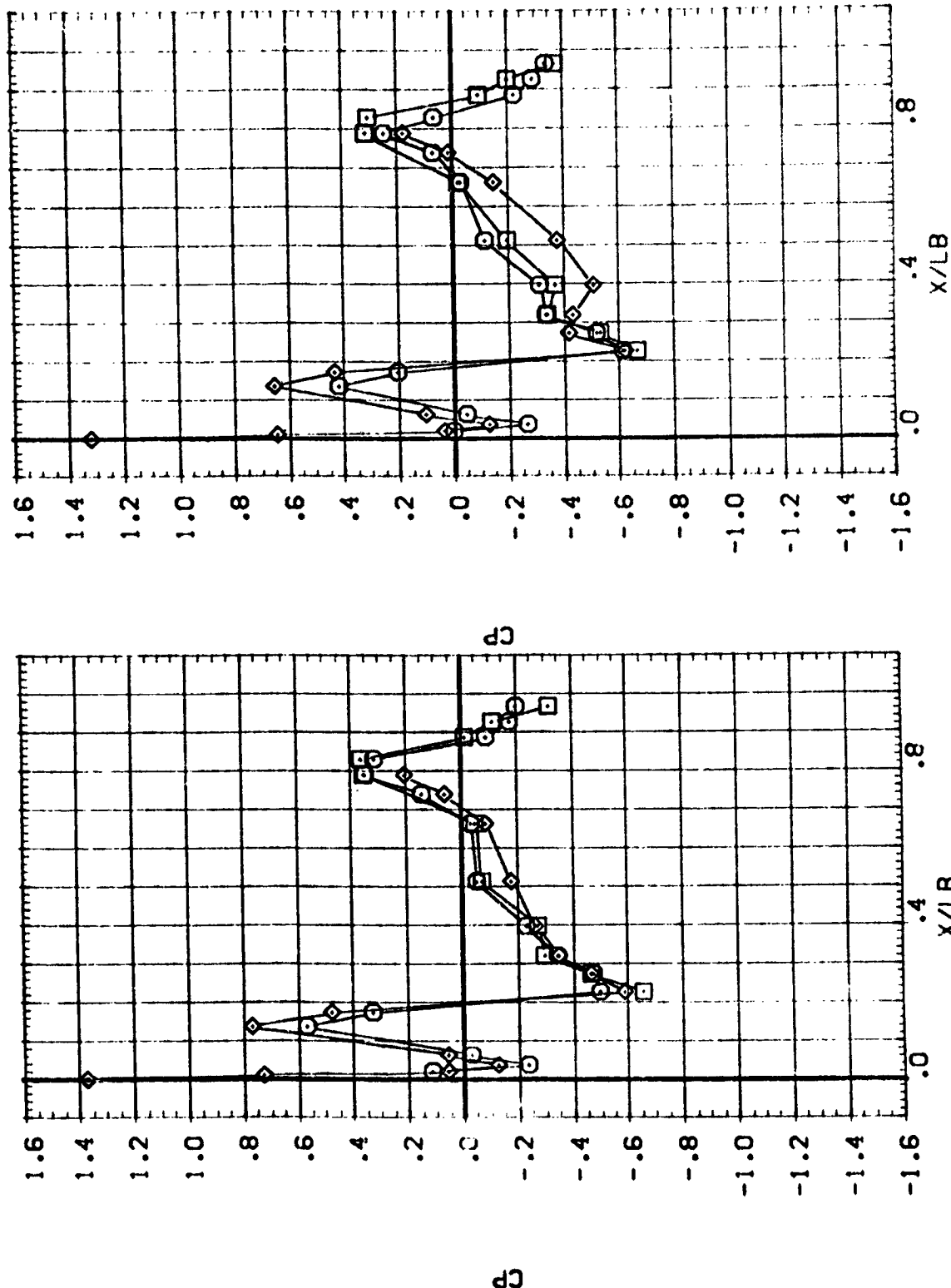
SYMBOL
O
I
◇

PHI
150.000
165.000
180.000

BETA
4.110
8.210

MACH
1.249

PARAMETRIC VALUES
ALPHAT 4.000
RUDDER .000
RUDLER .000
DRBINC .500
ELEVON .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

506-AS

20.000
 40.000
 55.000

BETA:	MACH
-4.01C	.597
.02C	

55.
MACH

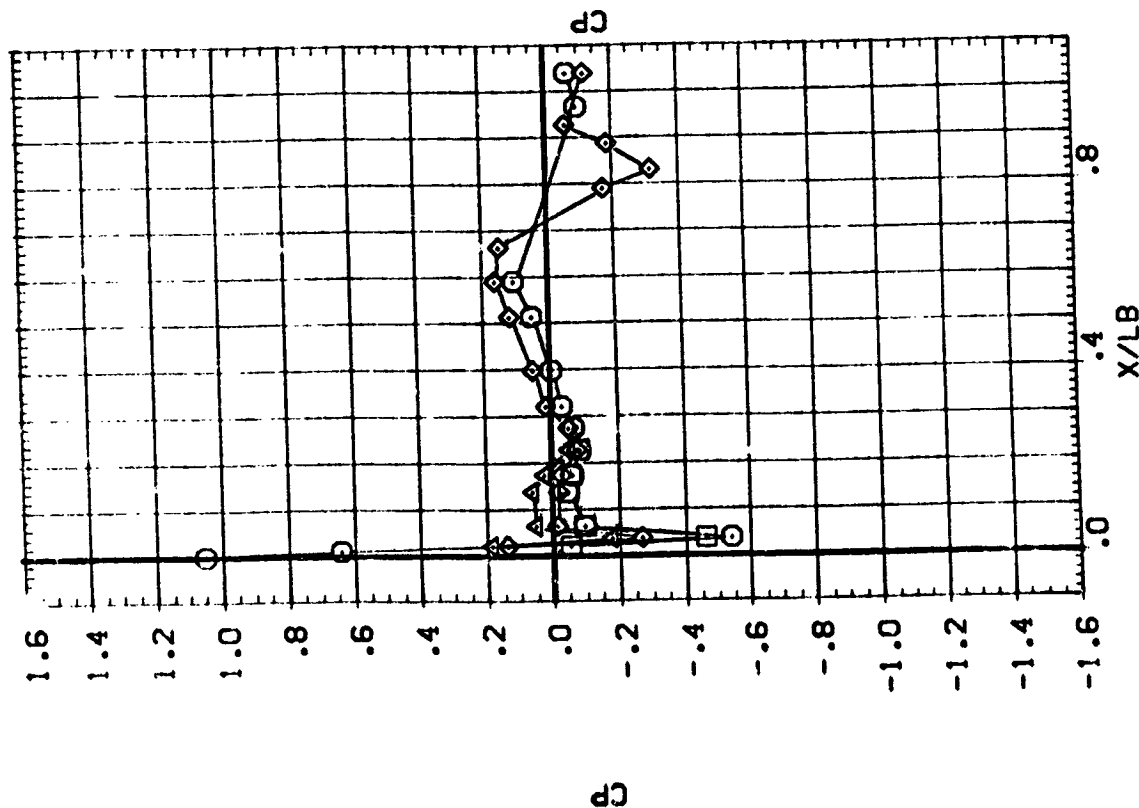
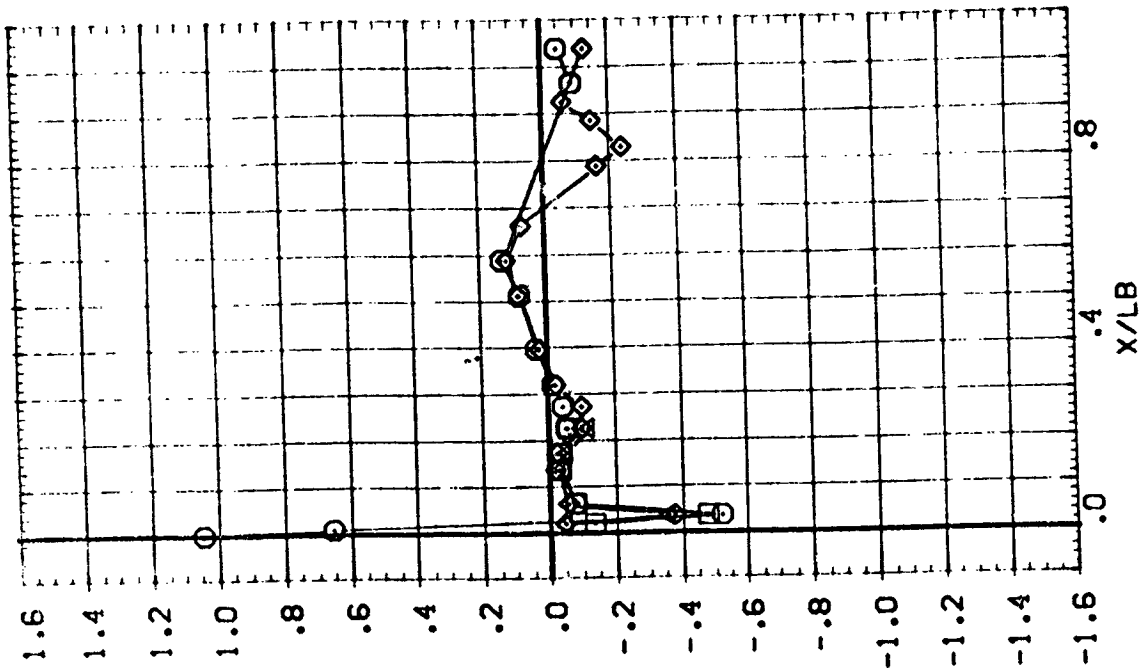
TAT
.010
.020

20.000
 40.000
 55.000

PARAMETER VALUES

ALPHA-
R-3000
R-3000

33



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

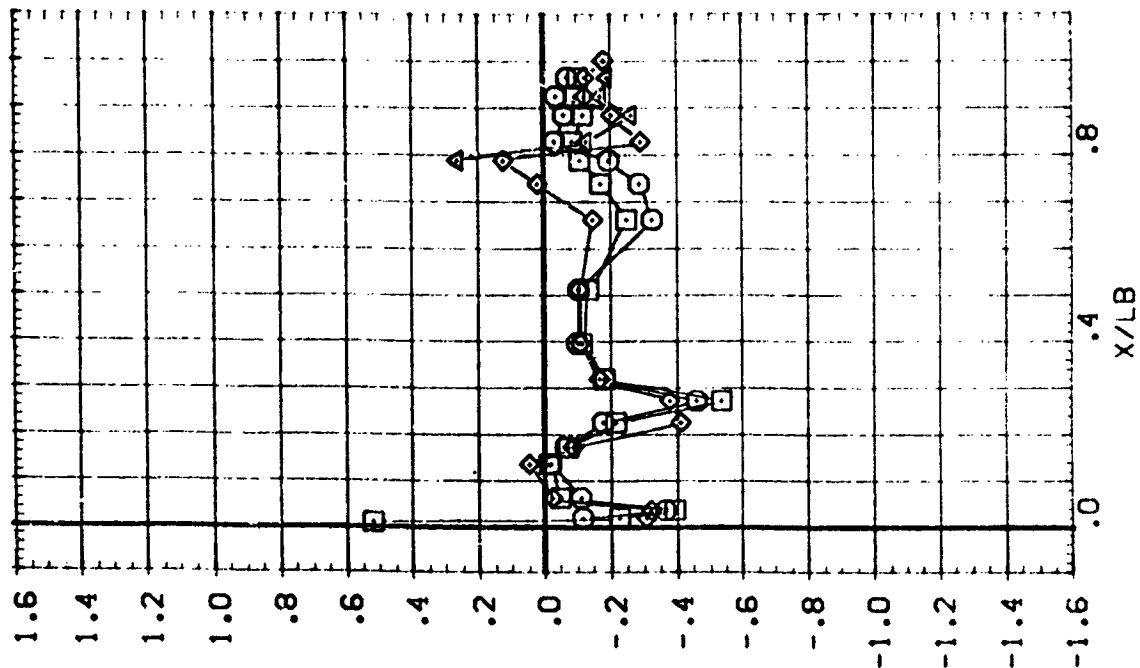
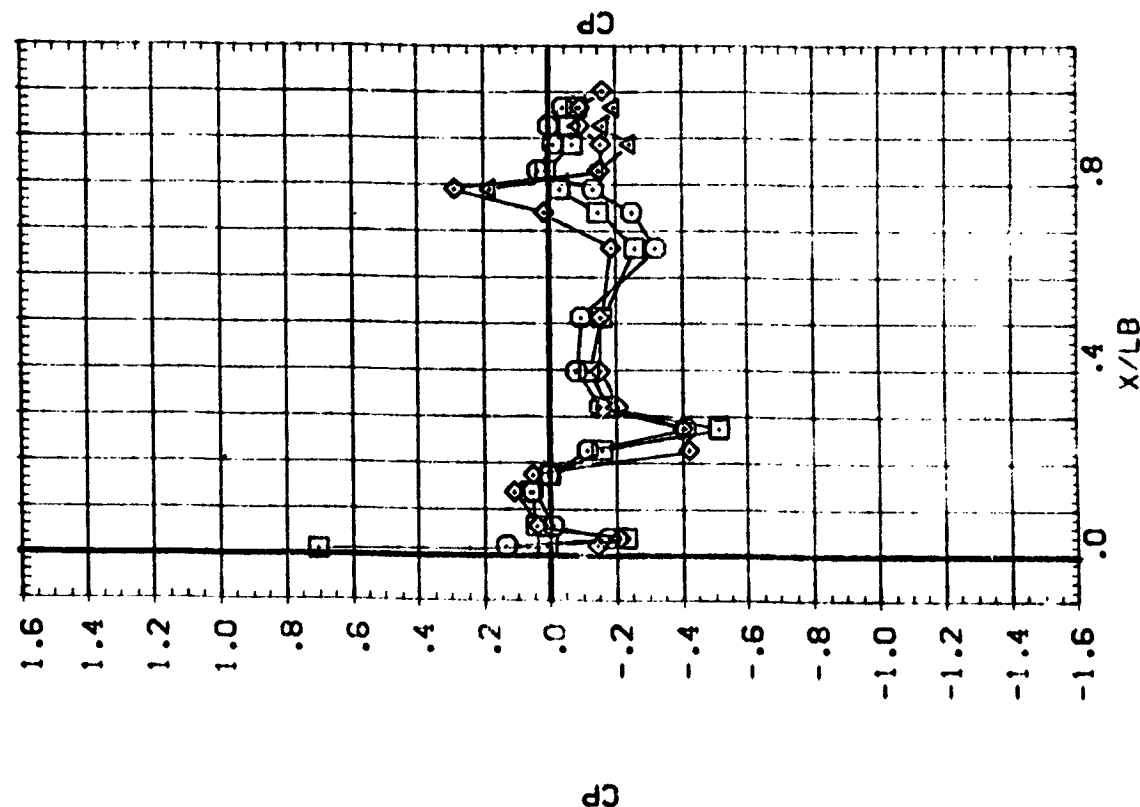
SYMBOL
 ○ □ ◇ △

PHI 70.000
 90.000
 120.000
 135.000

BETAT -4.010
 .020

MACH .597

PARAMETRIC VALUES
 ALPHA 7 8.000
 RUDDER .000
 ELEVON .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES



AMES 11-707 I A9 02A + S3 + T9 ORBITER FUSELAGE (RBMB11)

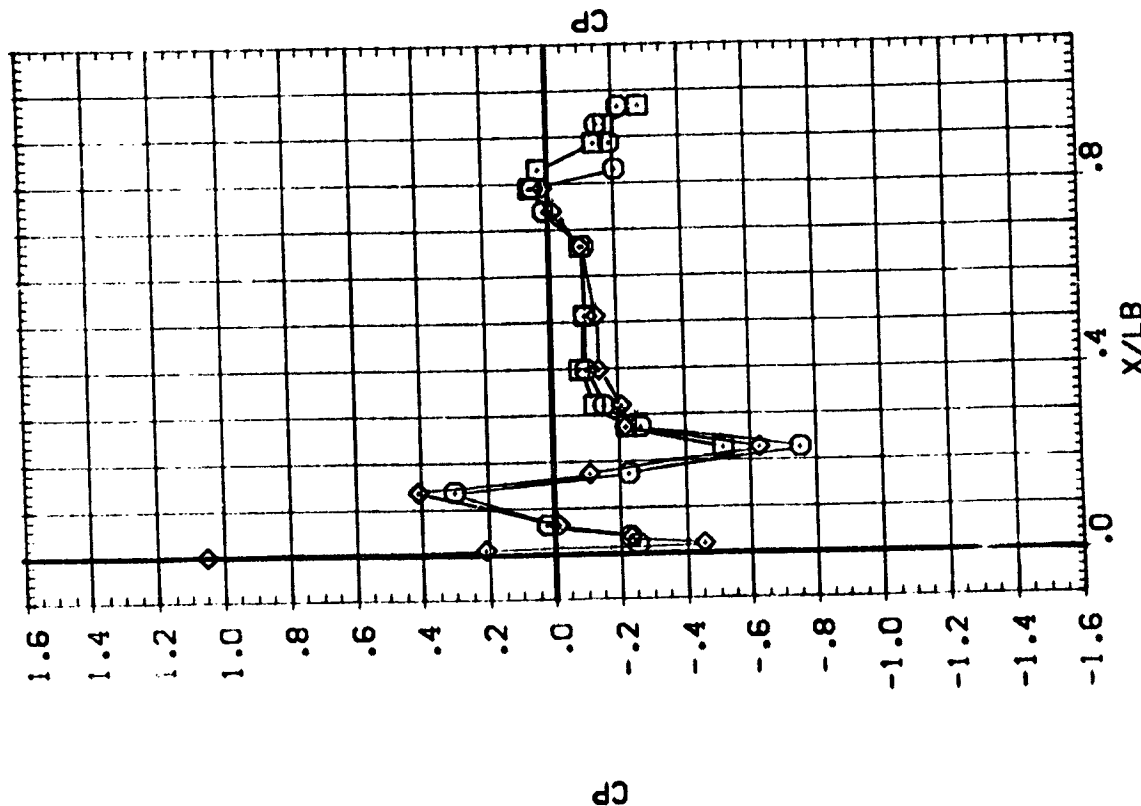
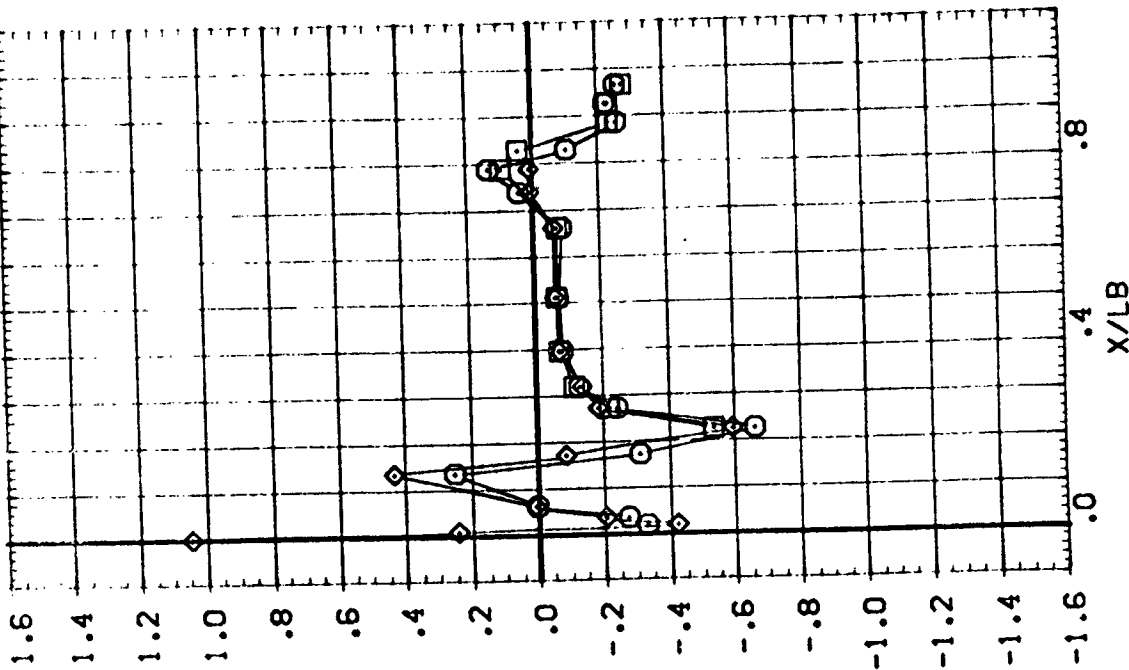
SYMBOL
O
□
◇

PHI
150.000
165.000
180.000

BETAT
-4.010
.020

MACH
.597

PARAMETRIC VALUES
ALPHAT 8.000
RUDDER .000
RUDFLR .000
ORBINC .500
ELEVON .000



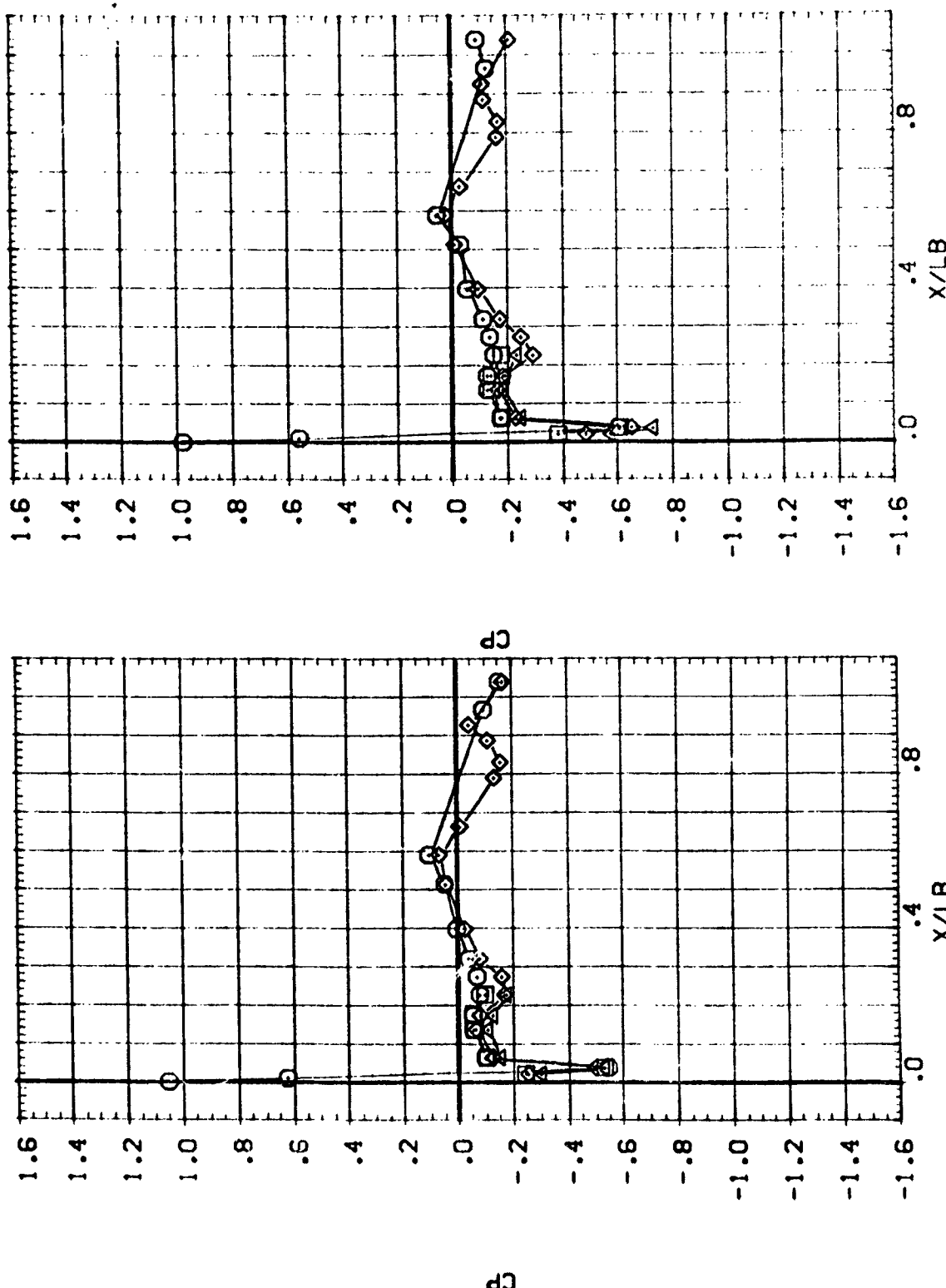
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES



AMES 11-707 1A9 C2A + S3 + 19 ORBITER FUSELAGE (RBM311)

PARAMETRIC VALUES
ALPHA: 8.000 8.000 .500
RUDER: .000 .000 .000
RUDFLR: .000 .000 .000

SYMBOL P-1 BETAT MACH
O 0.000 4.100 .500
□ 20.000 8.190
◇ 40.000
△ 55.000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES



AMES 11-707 1A9 C2A + S3 + T9 ORBITER FUSELAGE (RBMB11)

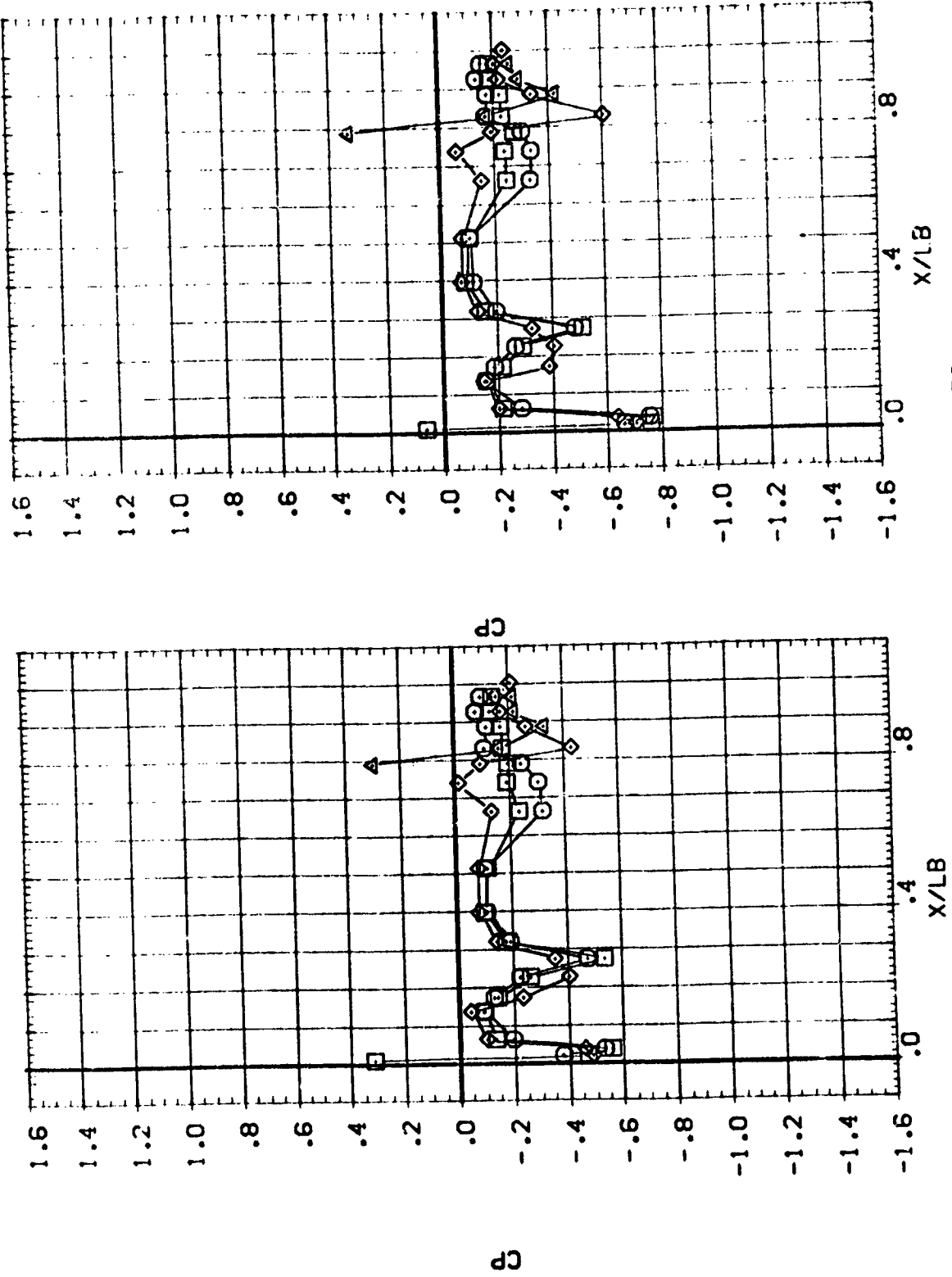
SYMBOL
O
◇
△

RM: 72.000
90.000
120.000
135.000

BETAT 4.100
8.190

1 MACH

PARAMETRIC VALUES
ALPHAT 8.000
RUDDER .000
RJDFLR .000
ORBINC .500
ELEVON .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

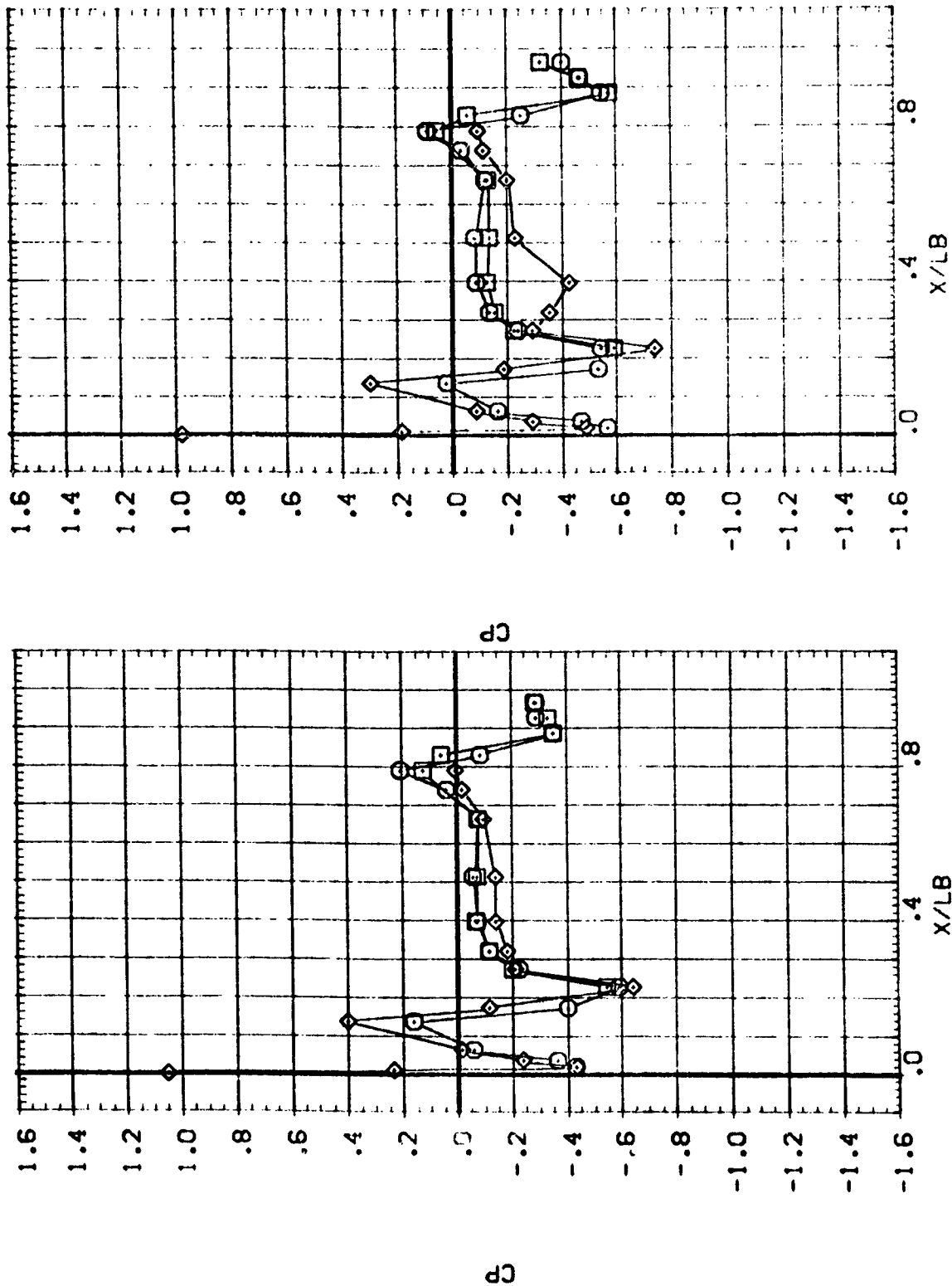
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AMES 11-707 1A9 02A + S3 + 19 ORBITER FUSELAGE (RBM311)

SYMBOL
○ □ ◇

PHI 150.000
165.000
180.000
BETAT 4.100
8.190
MACH .600

PARAMETRIC VALUES
ALPHA 8.000
RUDER .000
RUDDER .000
ORBITING
ELEVON
.500
.000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES



AMES 11-707 :A9 32A + S3 + T9 ORBITER FUSELAGE (RBMB11)

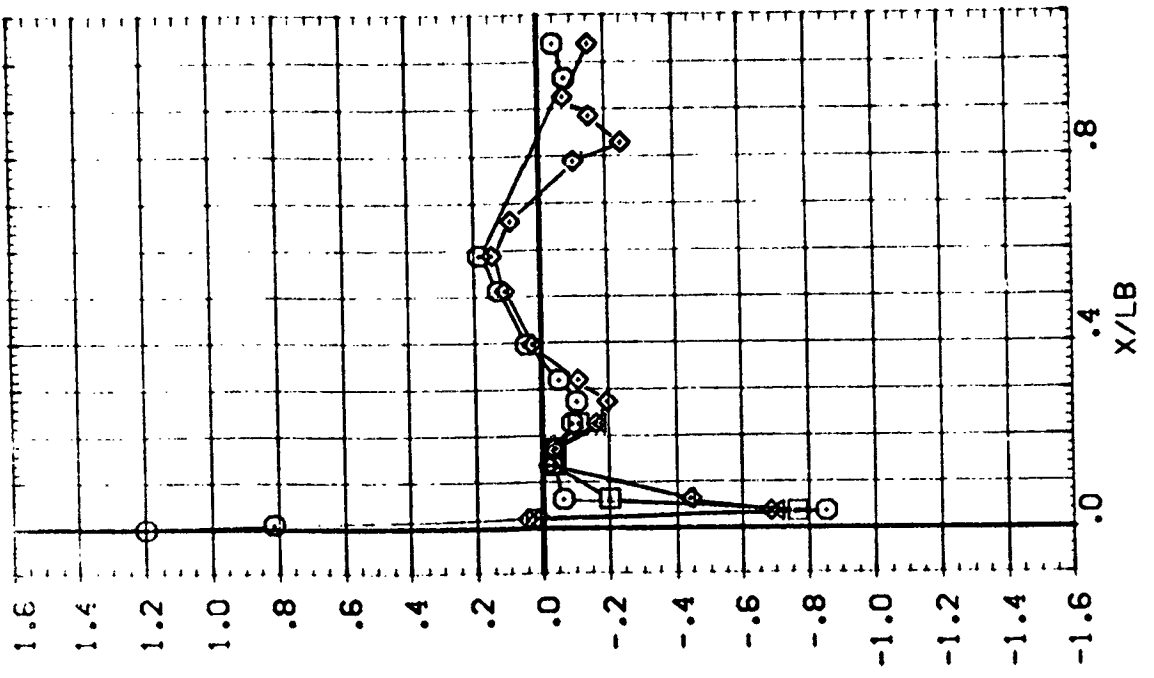
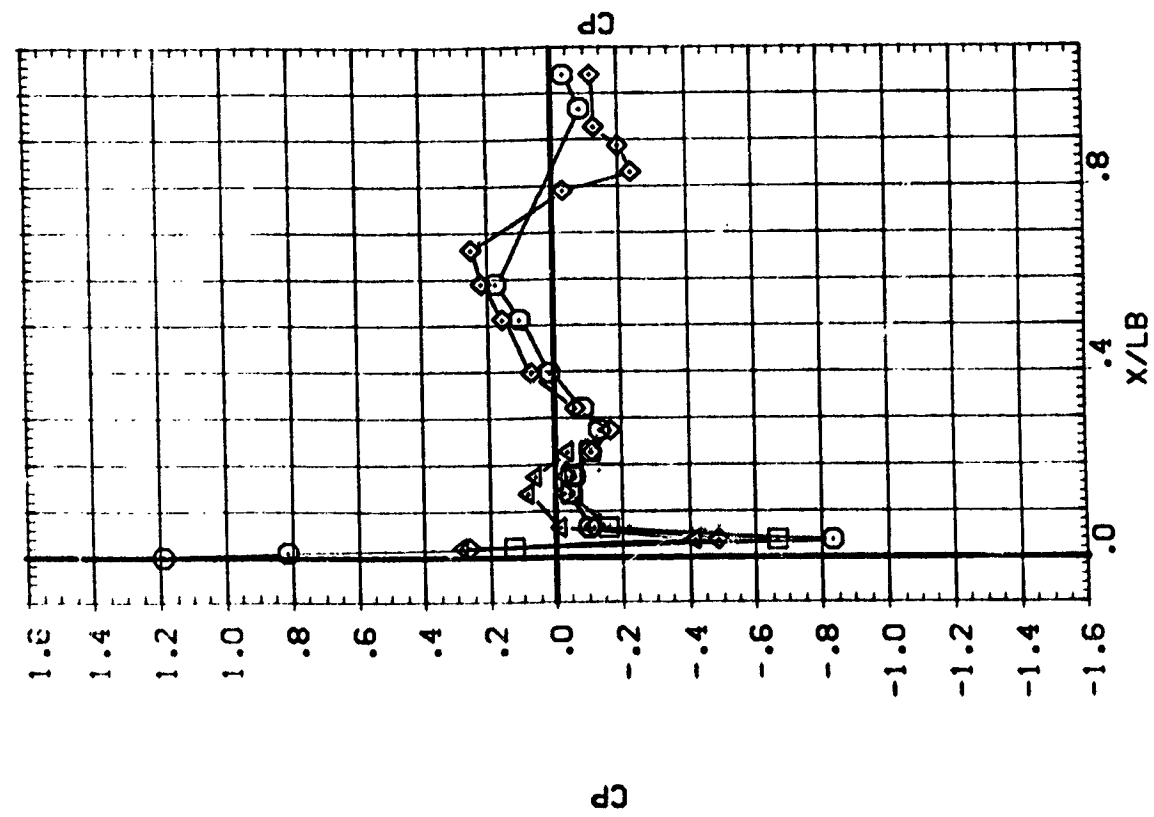
SYMBOL
○
□
◇
△

PHI
.000
20.000
40.000
55.000

BETA
-4.060
2.080

MACH
.903

PARAMETRIC VALUES
ALPHA
8.000
.000
RUDER
ELEVON
RUDFLR
.500
.000
.000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

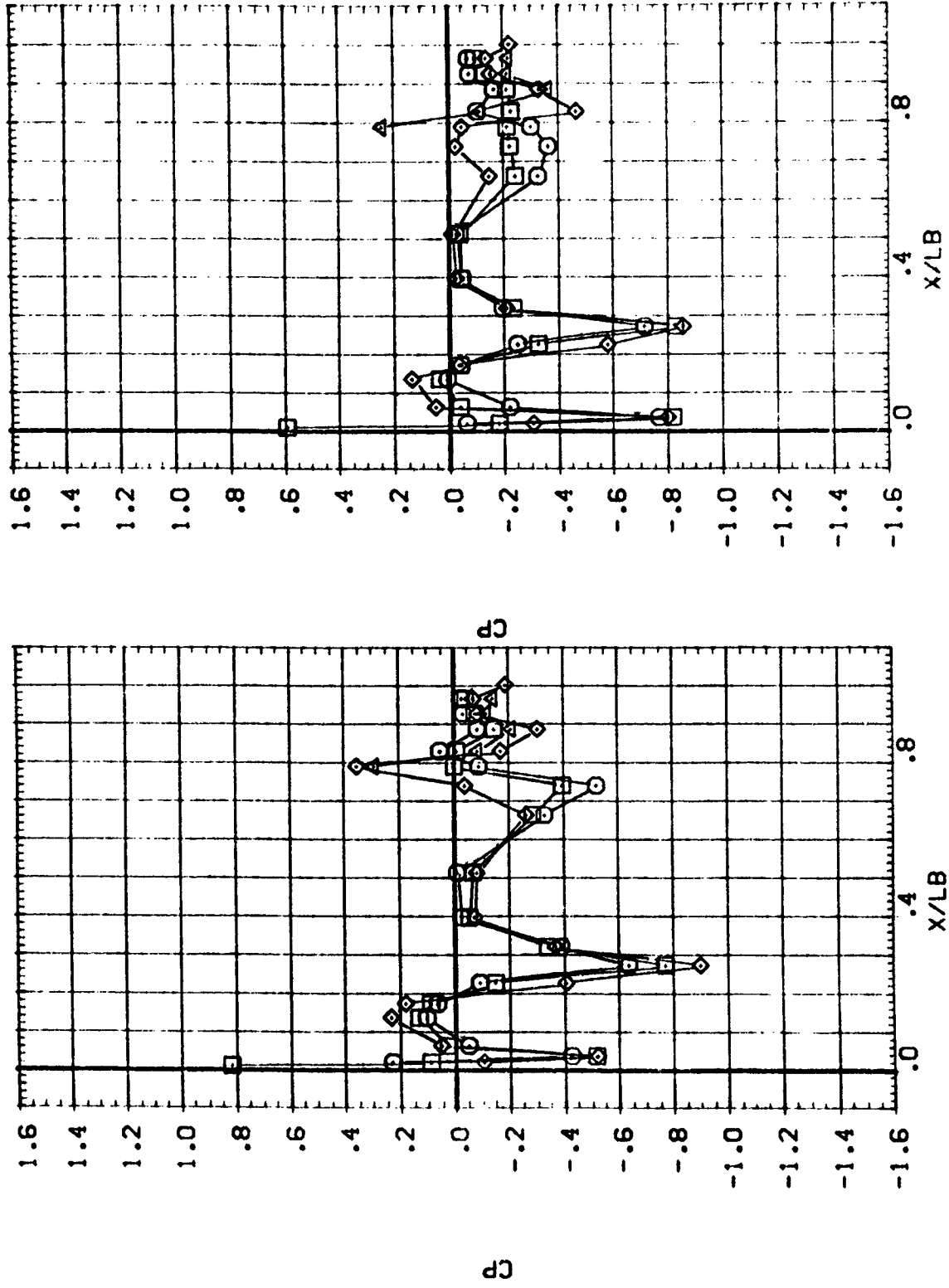


AMES 11-707 1A9 02A + S3 + 19 ORBITER FUSELAGE (RBM811)

SYMBOL
○
◇
△

PHI BETAT MACH
70.000 -4.060 .903
90.000 2.080
120.000
135.000

PARAMETRIC VALUES
ALPHAT 8.000 0.000 .500
RUDDER .000 ELEVON .000
RUDFLR .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

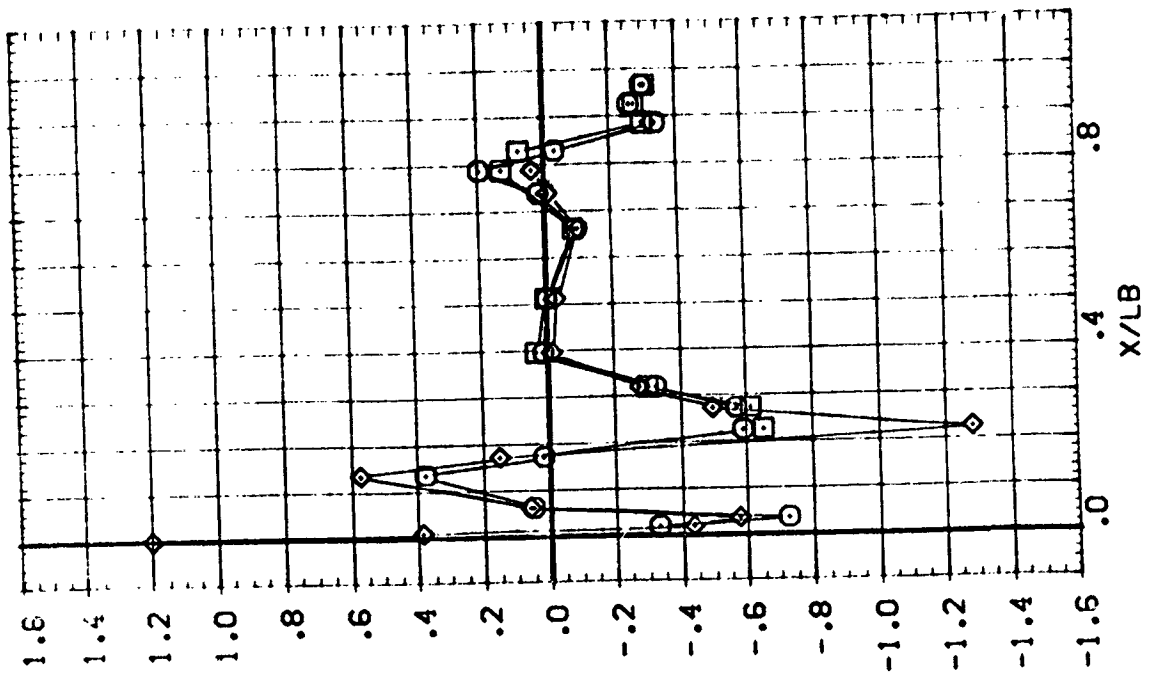
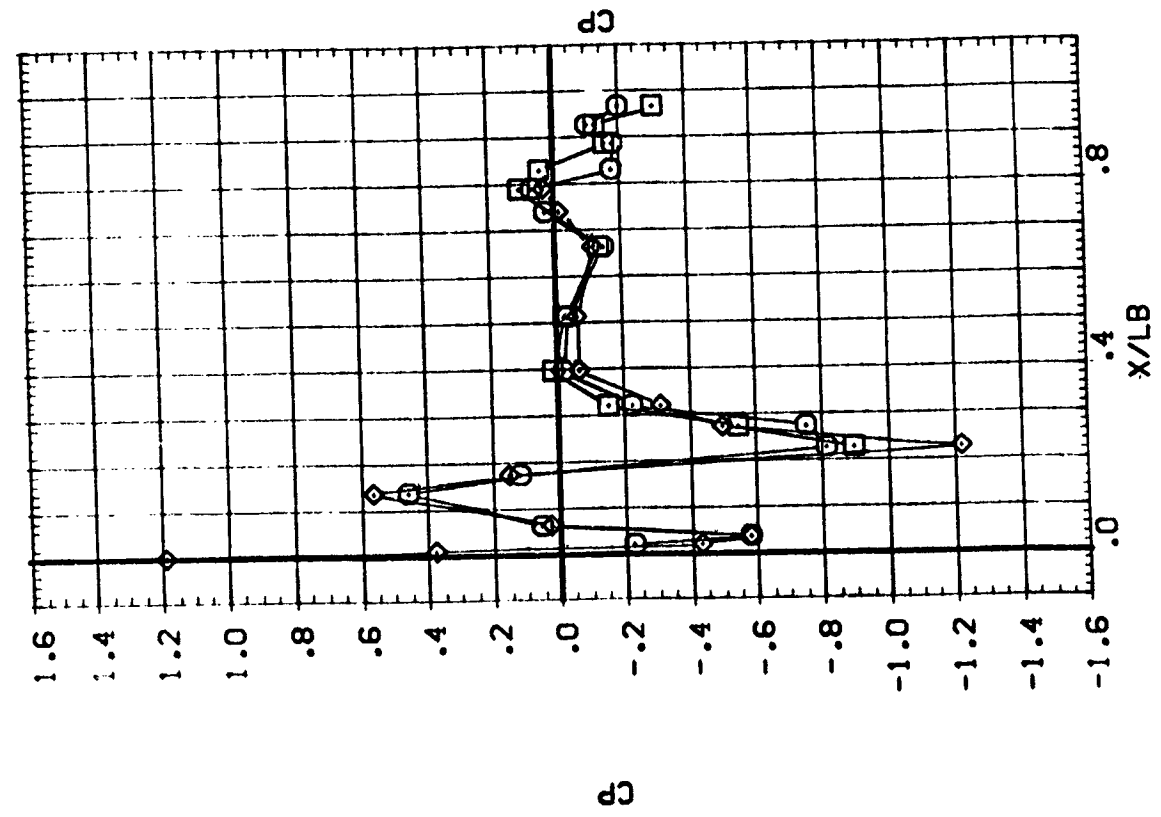


AMES 11-707 A9 02A + S3 + T9 ORBITER FUSELAGE (R8MB11)

SYMBOL
O
◇

PHI 150.000
165.000
180.000
BETAT -4.060
2.080
MACH .903

PARAMETRIC VALUES
ALPHAT 8.000 DBBINC .500
RUDDER .000 ELEVON .000
RUDFLR .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES



AMES :1-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (RBMB11)

SYMBOL
 ○
 ◇
 △

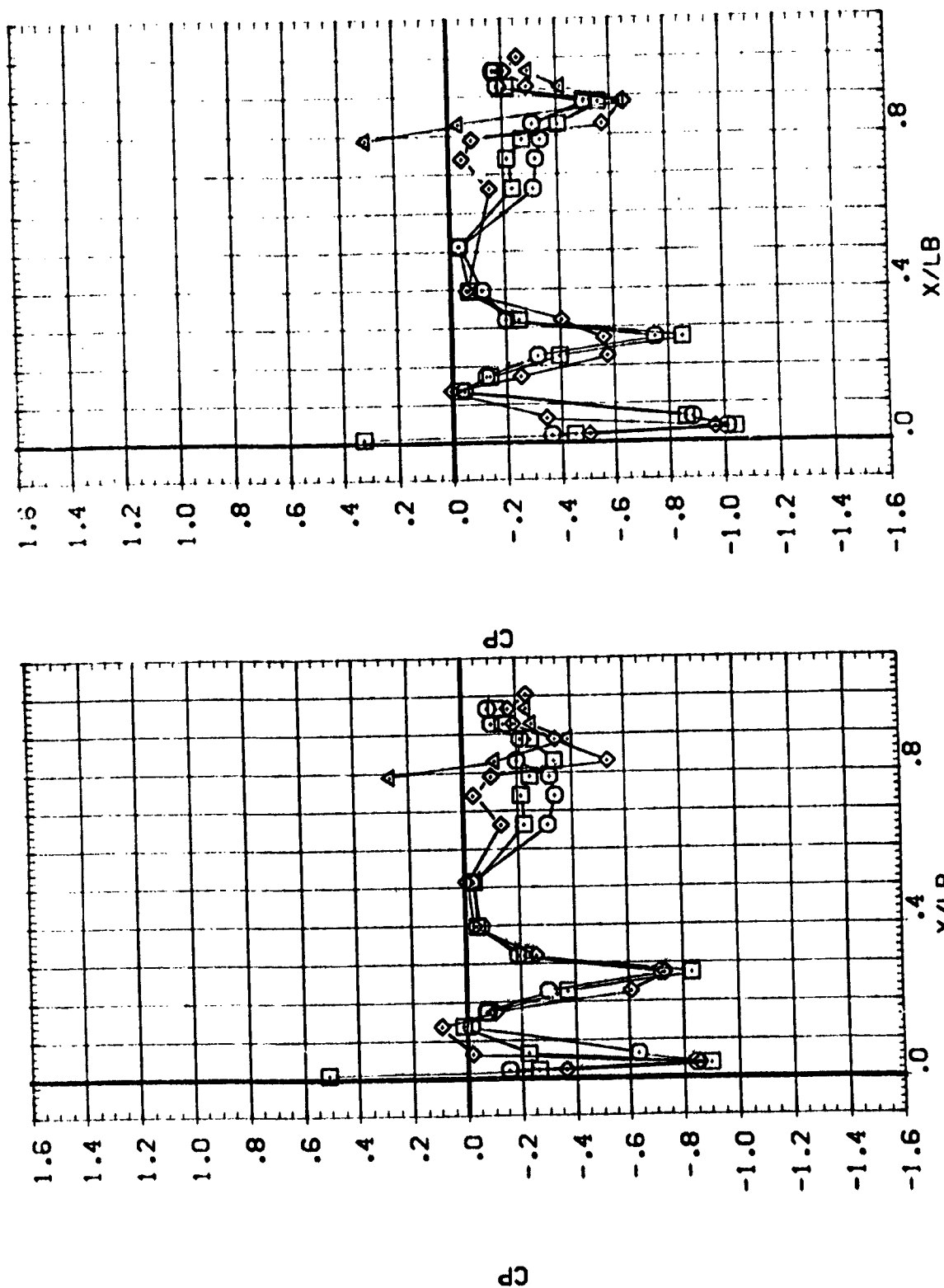
PMI
 70.000
 90.000
 120.000
 135.000

BETAT
 4.150
 8.280

MACH
 .900

PARAMETRIC VALUES
 ALPHA* 8.000
 RUDDER .000
 RUDFLR .000

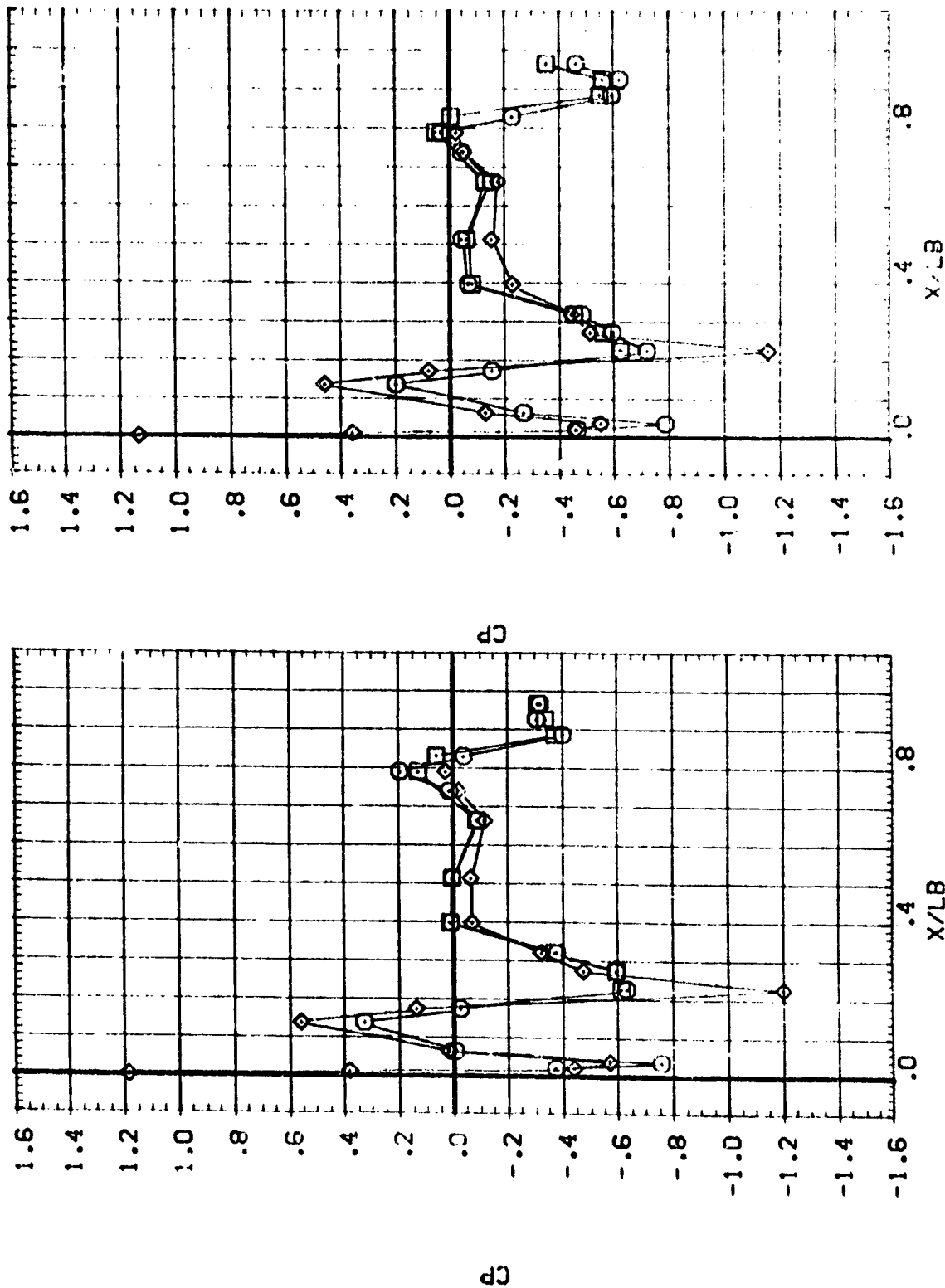
CSBINC .500
 ELEVEN .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AN: S 11-707 1A9 02A + S3 + 19 ORBITER FUSELAGE (RBM:11)

SYMBOL	PHI	BETAT	MACH	PARAMETRIC VALUES
○	150.000	4.150	.900	ALPHAT 8.000
◇	165.000	8.280		RUDER .000
	180.000			ELEVON .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES



AVES 1:-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (RBM31:)

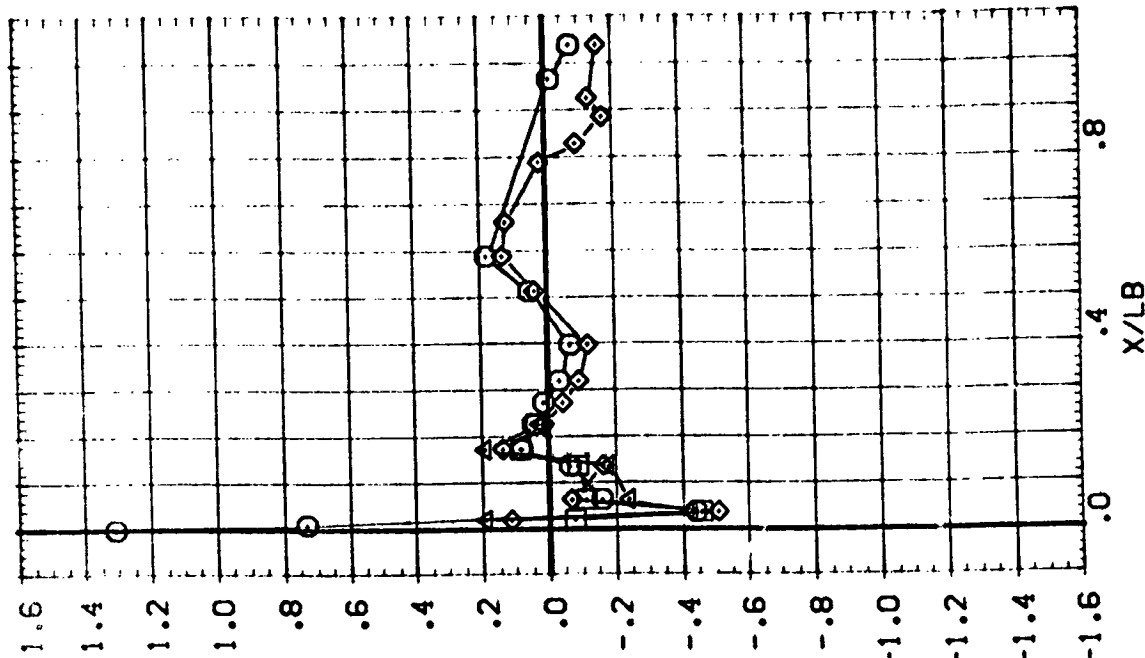
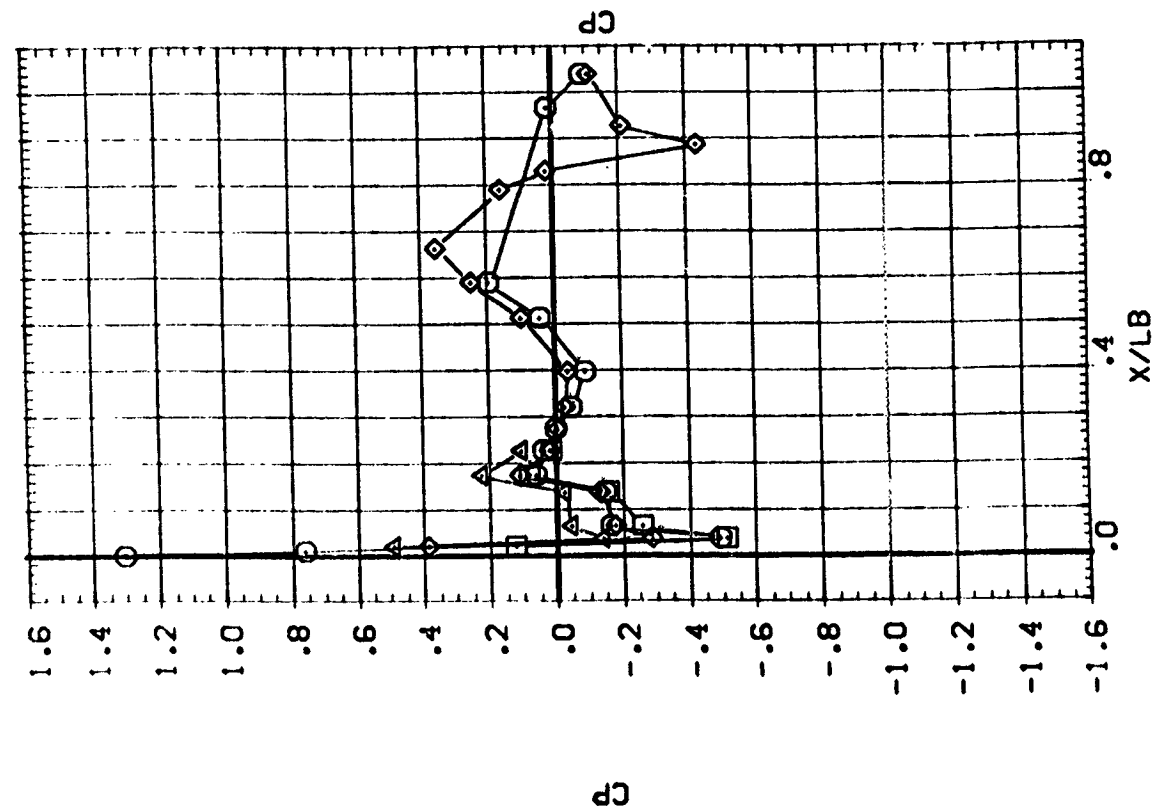
SYMBOL
○
◇
△

PHI
.000
20.000
40.000
55.000

BETAT
-4.070
2.090

MACH
1.102

PARAMETRIC VALUES
ALPHA1 8.000
RUDER .000
RUOFLR .000
CRBINC .500
EL/VON .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

SYMBOL
 □
 ○
 ◇
 △

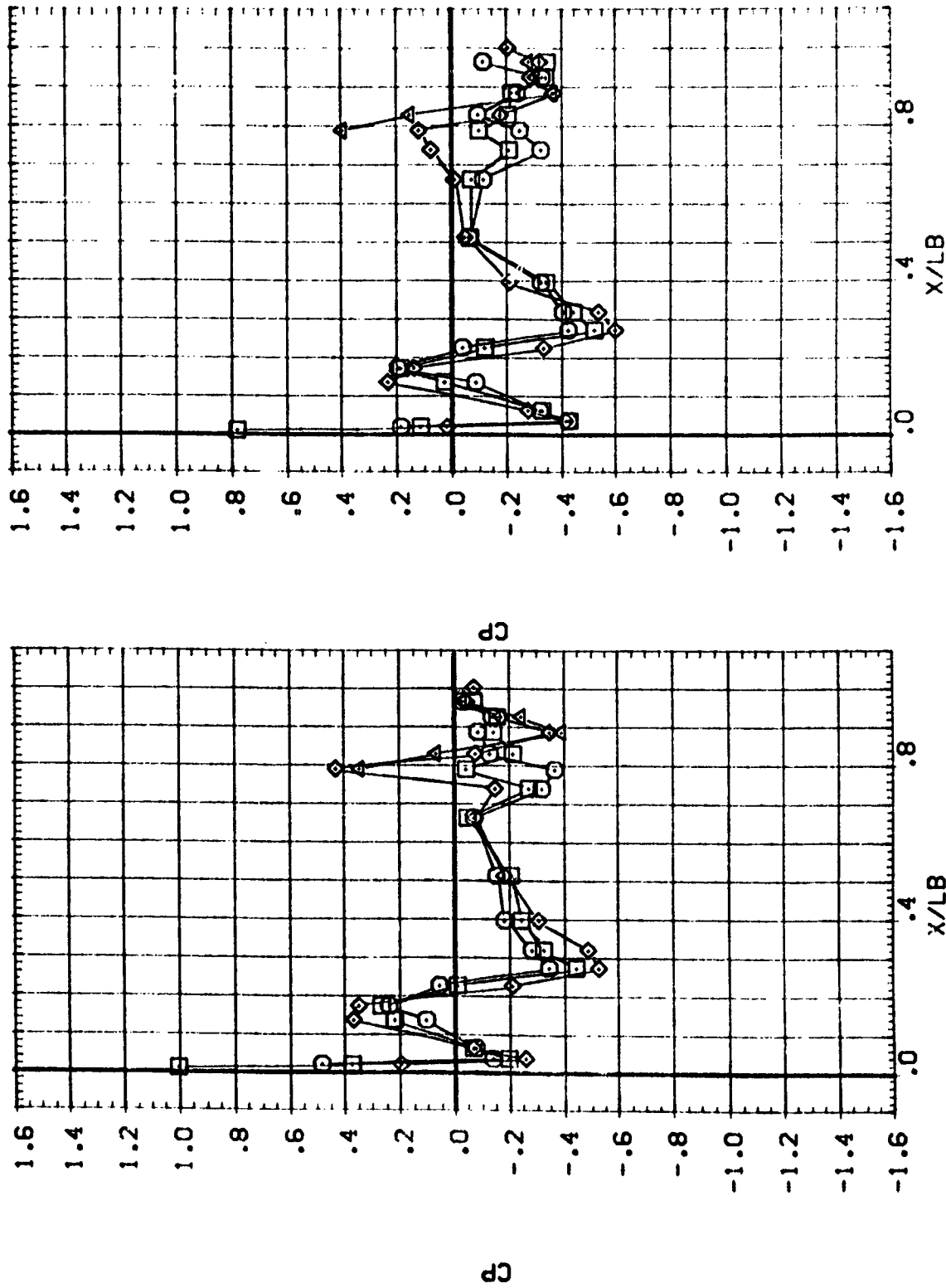
PHI: 70.000
 90.000
 120.000
 135.000

BETAT -4.070
 2.090

MACH 1.132

PARAMETRIC VALUES
 ALPHAT 8.000
 RDOER .000
 RDOFLR .000

.500
 .000

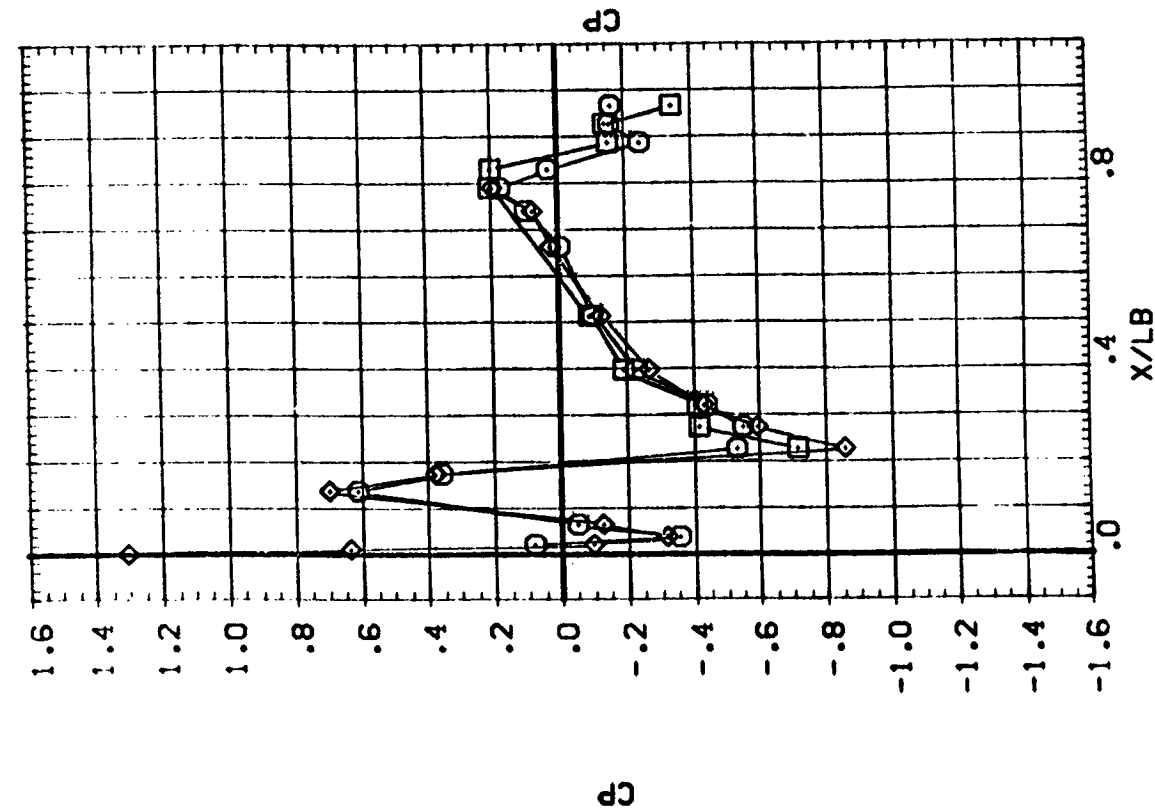
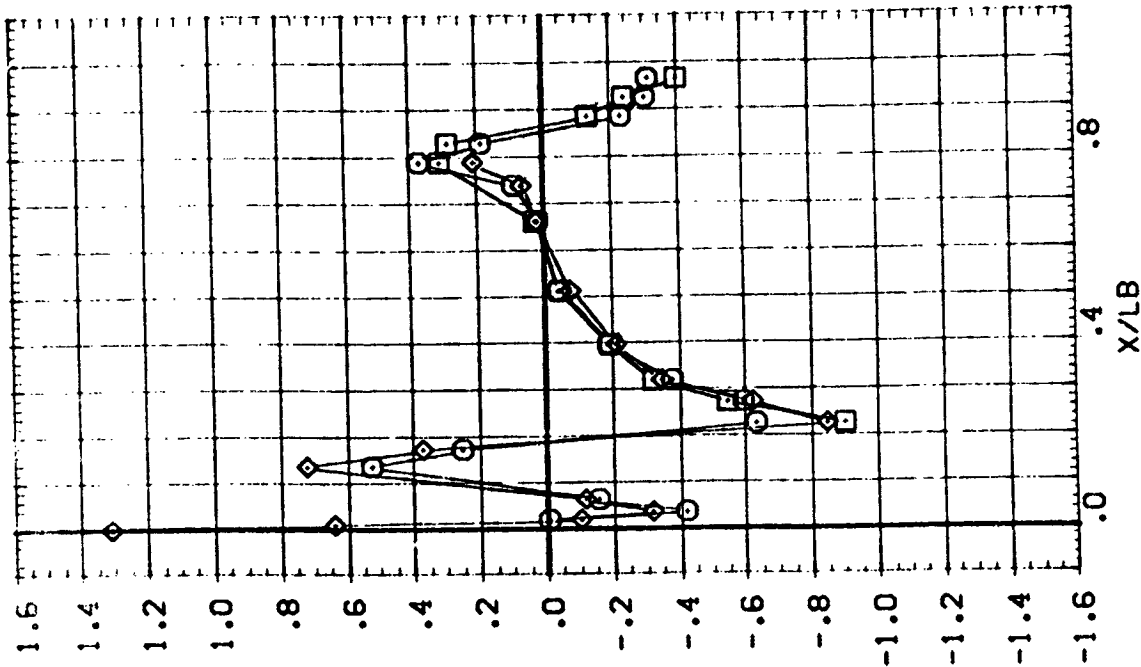


LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES



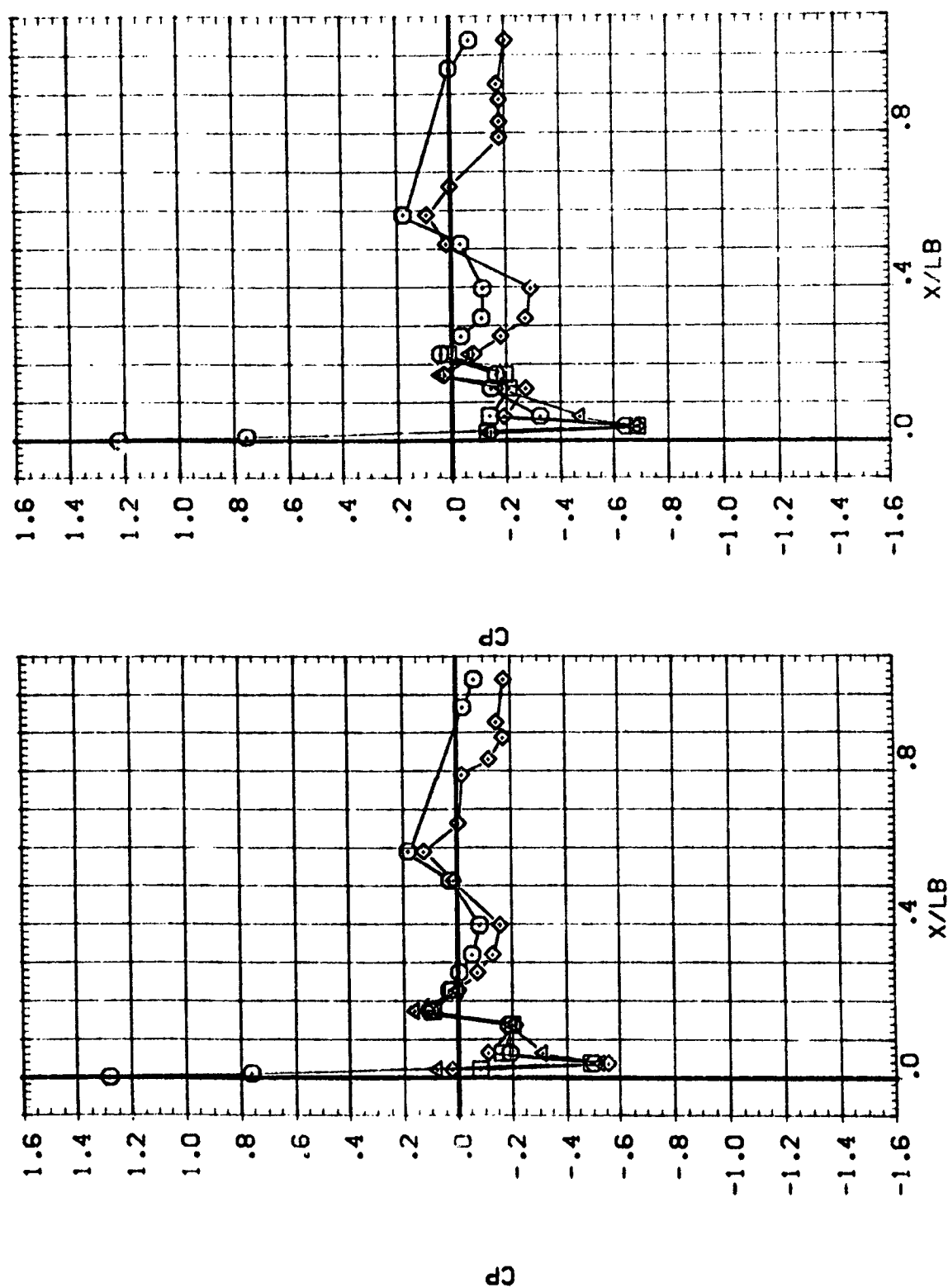
AMES 11-707 1A9 32A + S3 + T9 ORBITER FUSELAGE (RBMB11)

SYMBOL	PARAMETRIC VALUES
○	ALPHA 8.000
□	ORBIT 8.000
◇	ELEV 8.000
	RUDER 8.000
	RUDLR 8.000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

SYMBOL	P41	BETAT	MACH	PARAMETRIC VALUES			
				ALPHAT	8.000	ORBINC	.500
				RUDGER	.000	ELEVSN	.000
				RUDFLR	.000		



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES



AVES 11-707 1A9 02A - S3 + T9 ORBITER FUSELAGE (RBMB11)

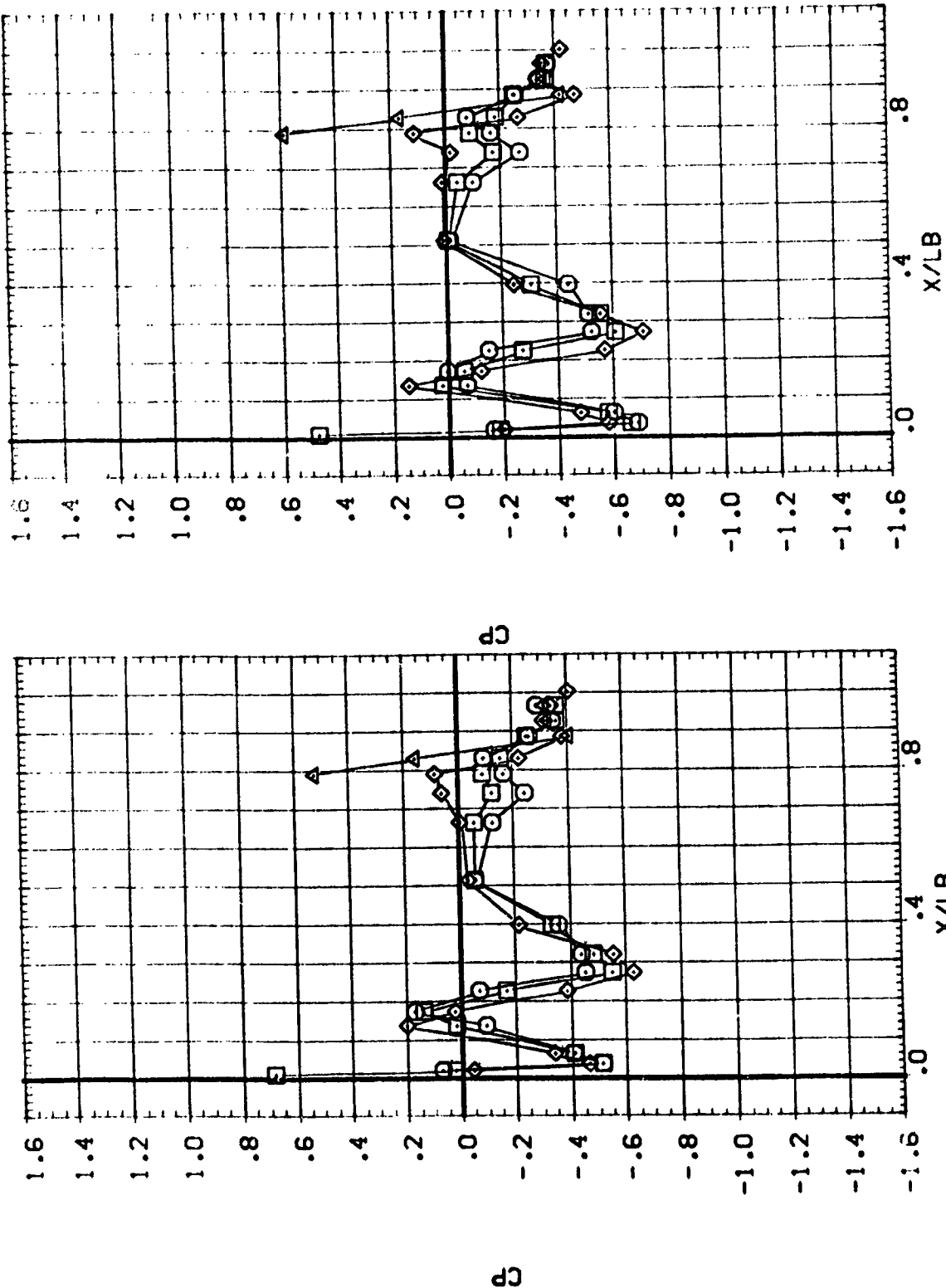
SYMBOL
 ○
 ◇
 △

PHI
 70.000
 90.000
 120.000
 135.000

BETA
 4.150
 8.300

MACH
 1.103

PARAMETRIC VALUES
 ALPHAT 8.000
 RUDDER .000
 RUDDLR .000
 ORBITING .500
 ELEVON .000

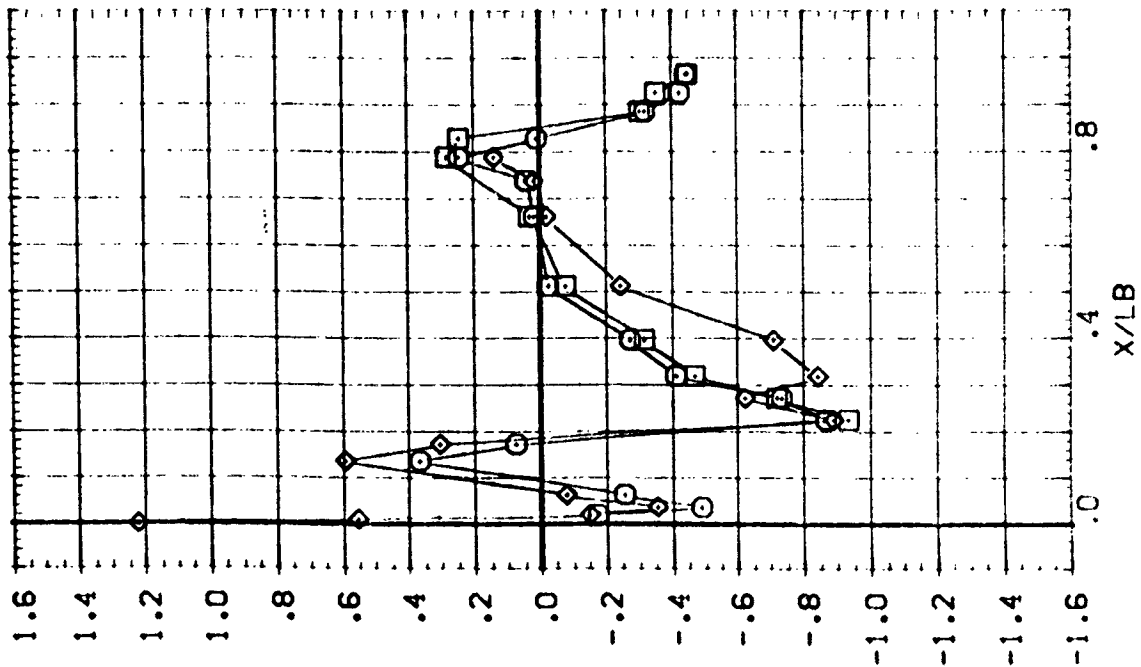
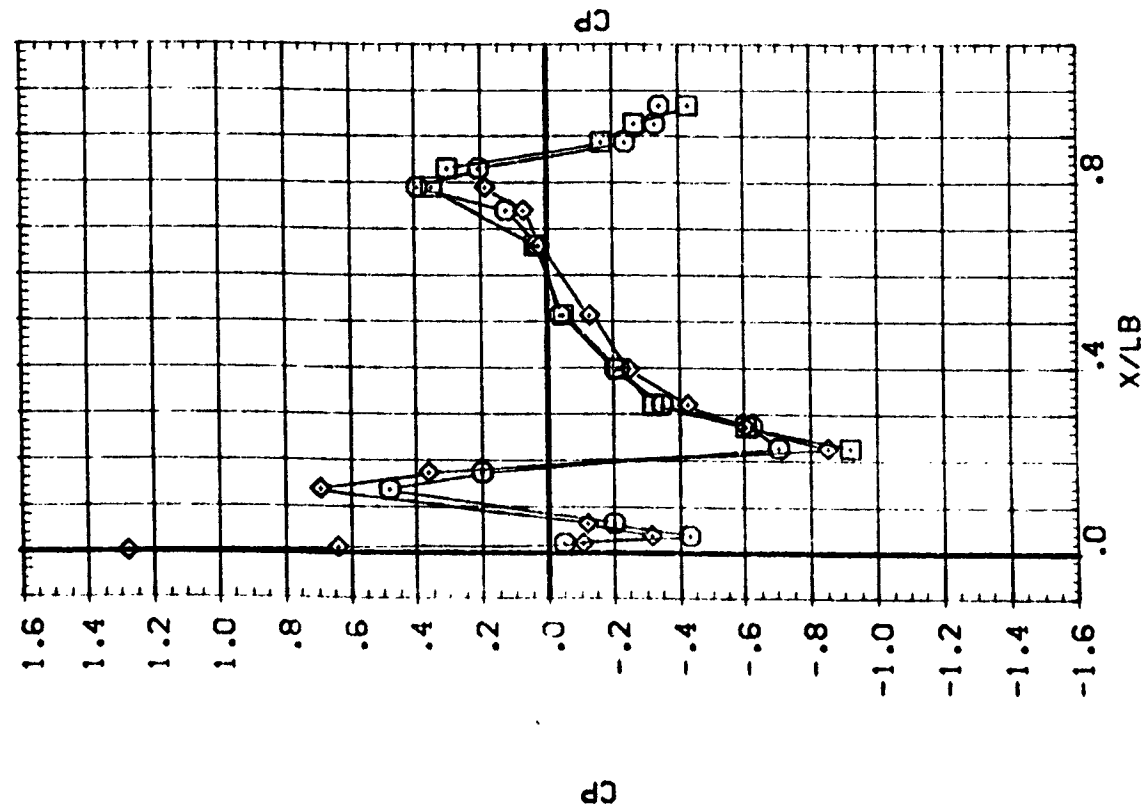


LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES



AMES 11-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (RBMB11)

SYMBOL	PARAMETRIC VALUES
○	ALPHAT 8.000
□	CRBINC .500
◇	RUDER .000
	ELEVON .000
	RUDFLR .000

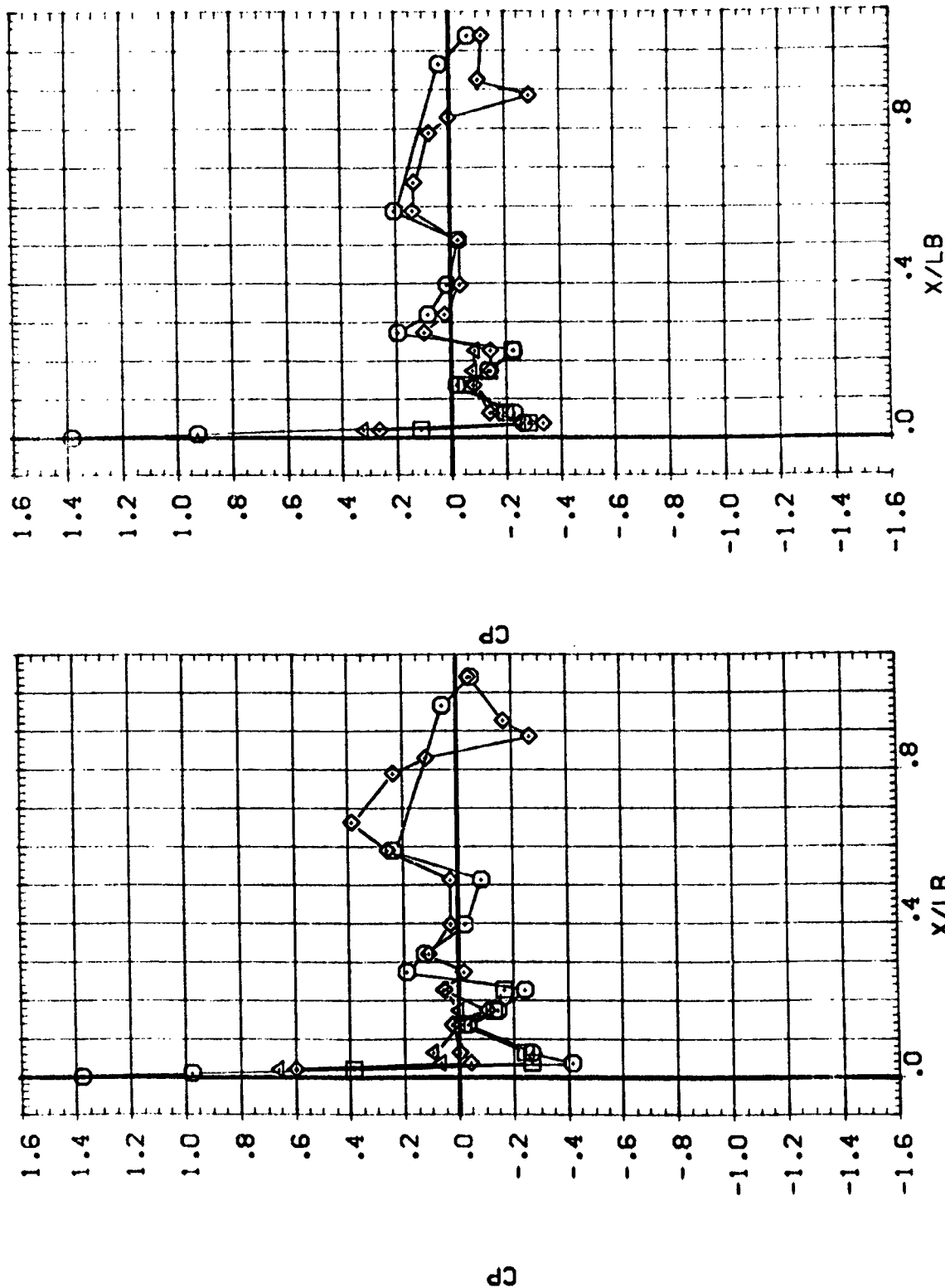


LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES



AMES 11-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (RMB11)

SYNOPSIS: PH: .000 BETAT: MACH: 1.249
20.000 40.000 55.000
PARAMETRIC VALUES: ALPHAT: 8.000 DRBINC: .500
RUDDER: .000 ELEVON: .000
RUDFLR: .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

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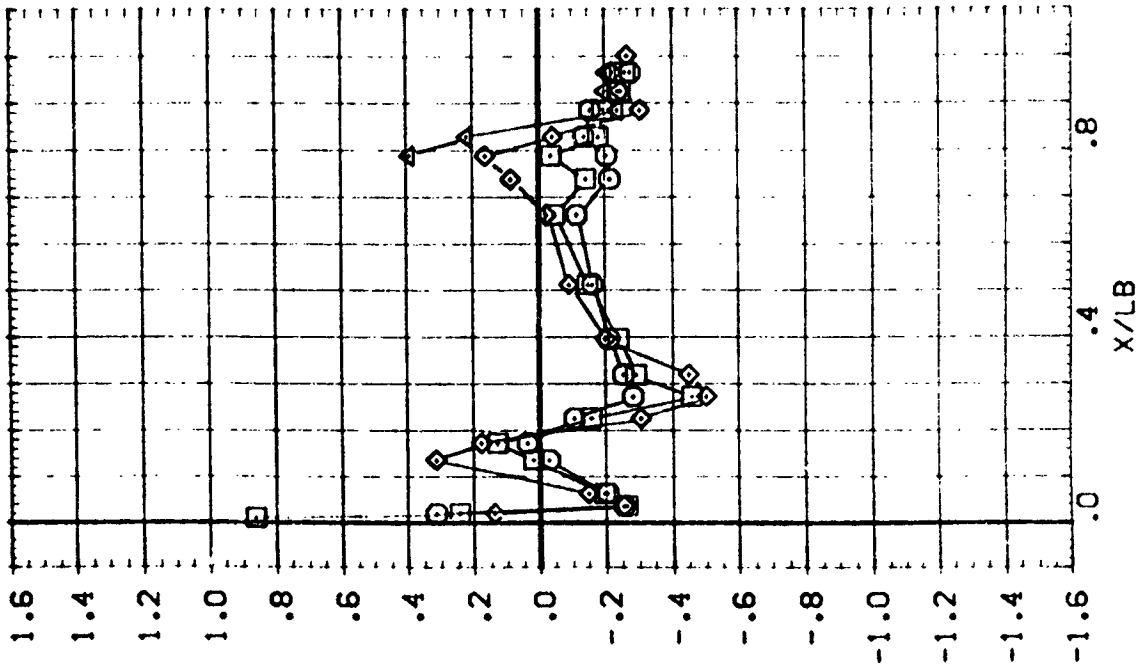
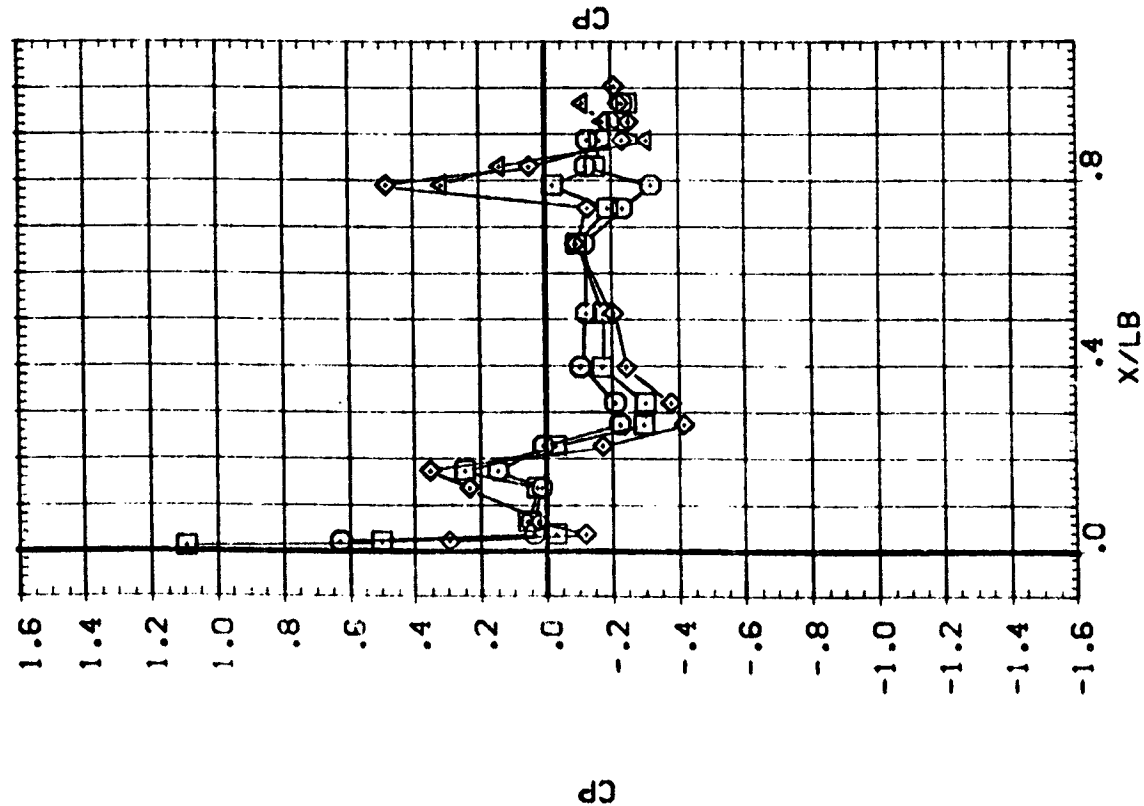
AVES :-707 IAS 02A + S3 + T9 ORBITER FUSELAGE (RBMB11)

SYMBOL

70.000
90.000
120.000
135.000

BETA° MACH
-4.040 1.249
2.080

PARAMETRIC VALUES
ALPHA° 8.000 ORBINC .500
RUDDER .000 ELEVEN .000
RUDDLR .000



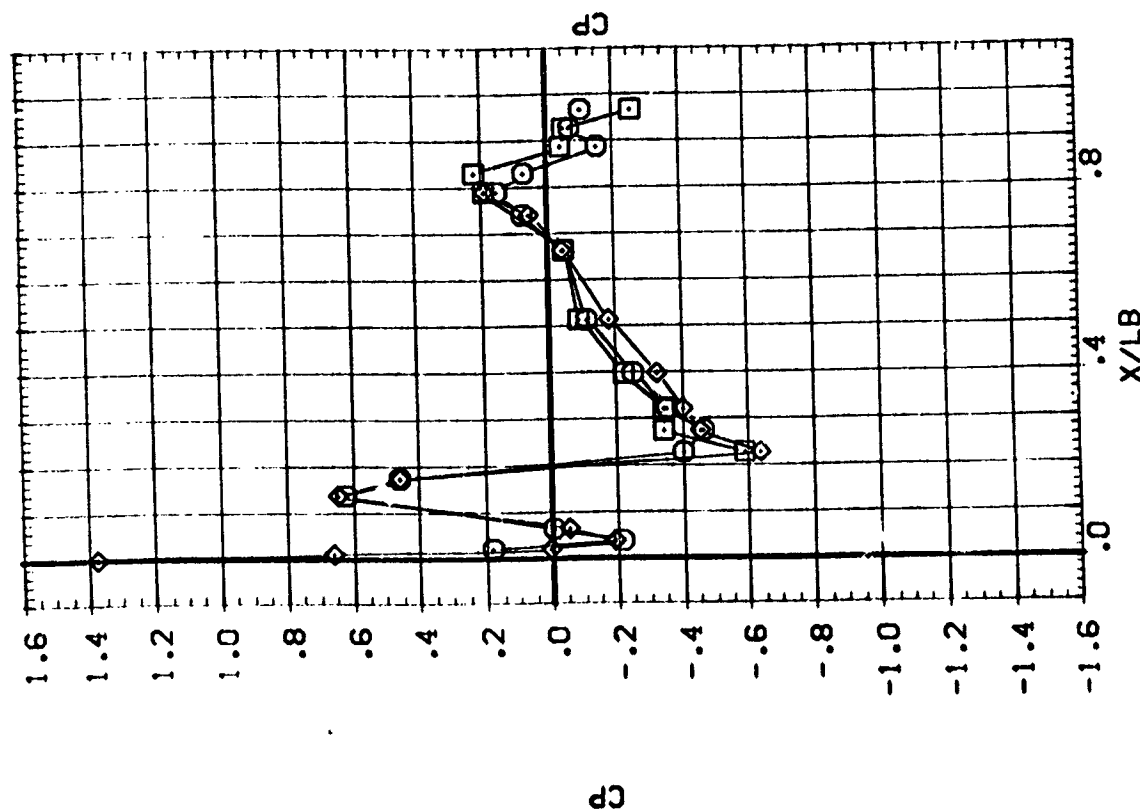
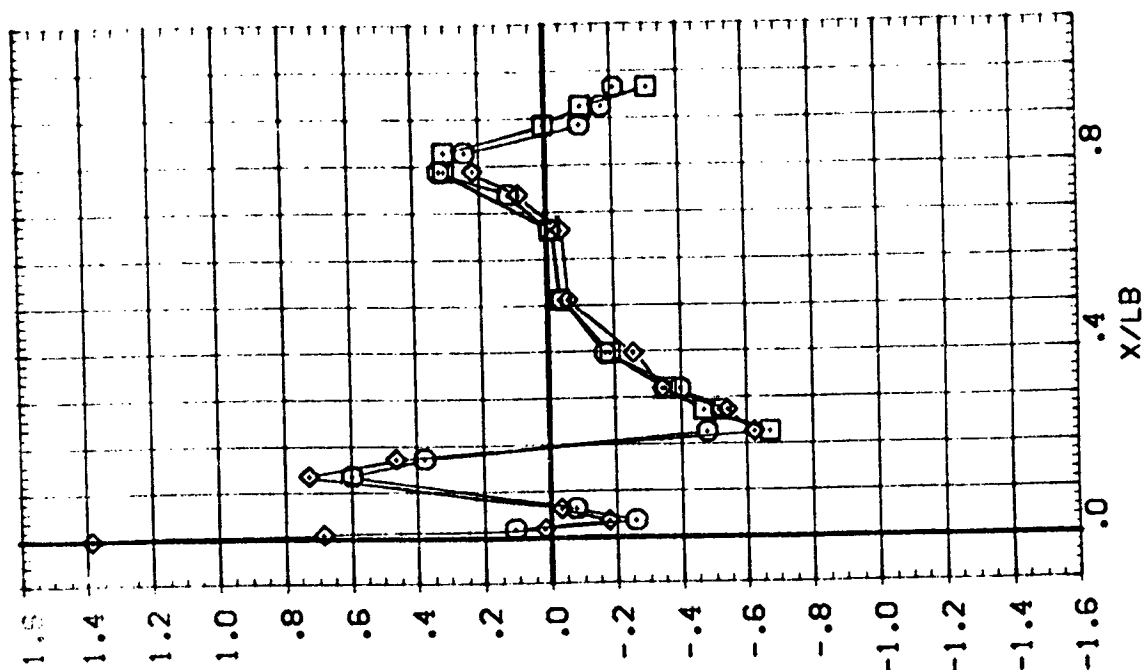
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES



AMES 11-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (RBMB11)

PARAMETRIC VALUES
 ALPHAT 8.000 CRBINC .500
 RUDDER .000 ELEVON .000
 RJOFLLR .000

PHI 150.000 MACH 1.249
 BETAT -4.040
 SYMBO 165.000
 180.000

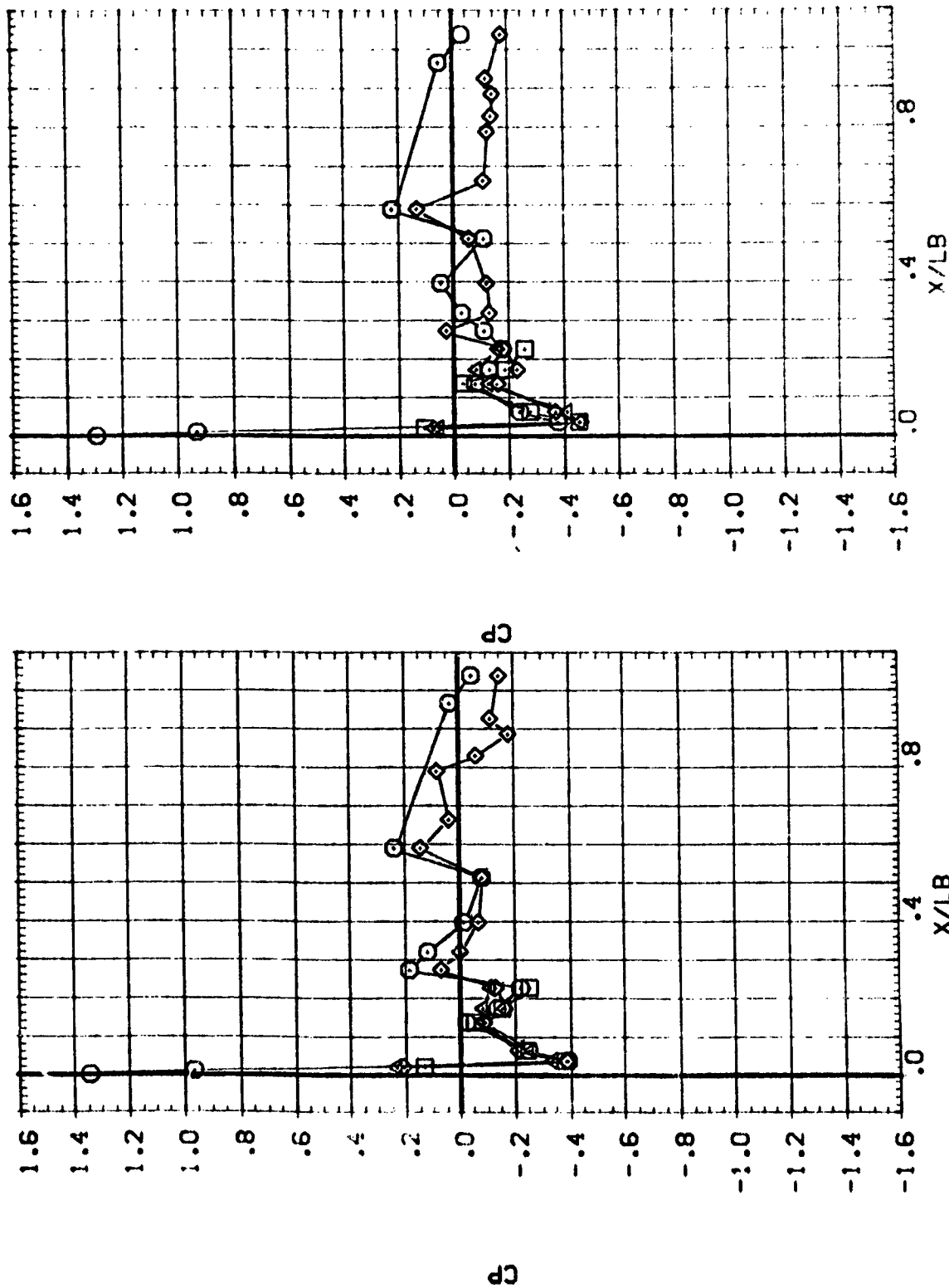


LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES



AMES 11-707 IA9 C2A + S3 + T9 ORBITER FUSELAGE (RBMB11)

SYMBOL	PHI	BETAT	MACH	PARAMETRIC VALUES			
				ALPHAT	CP8:NC	ELEVON	
○	.000	4.130	1.247	8.000	.000	.000	
□	20.000	8.250		.000	.000	.000	
◇	40.000						
△	55.000						



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES



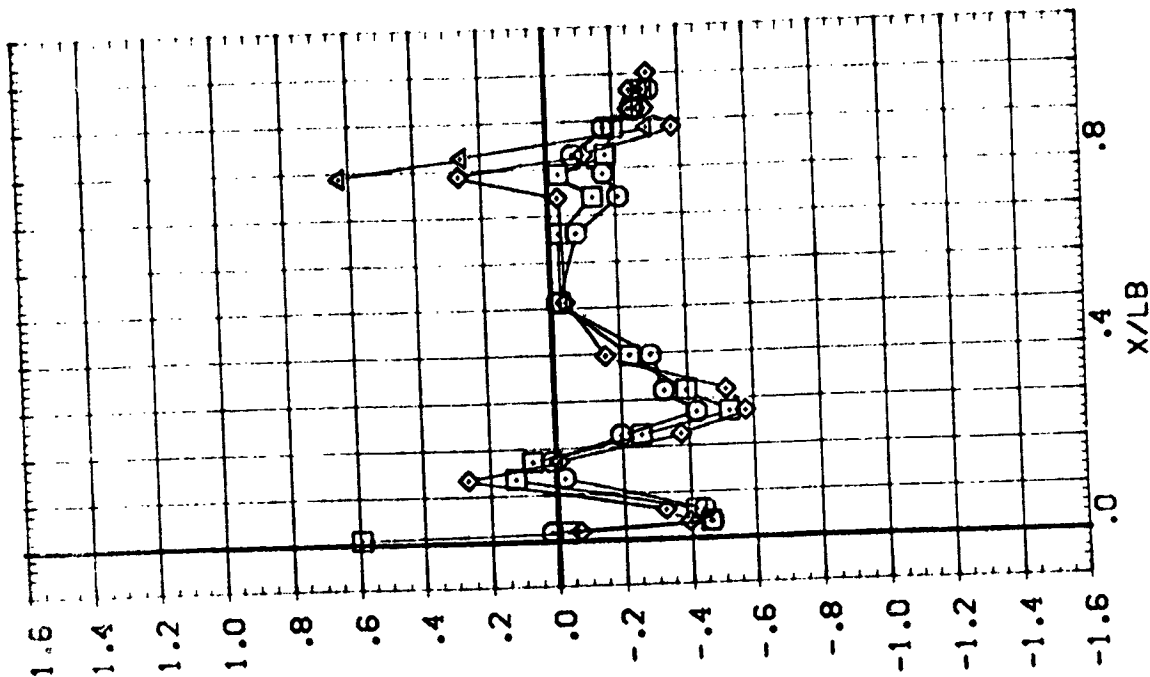
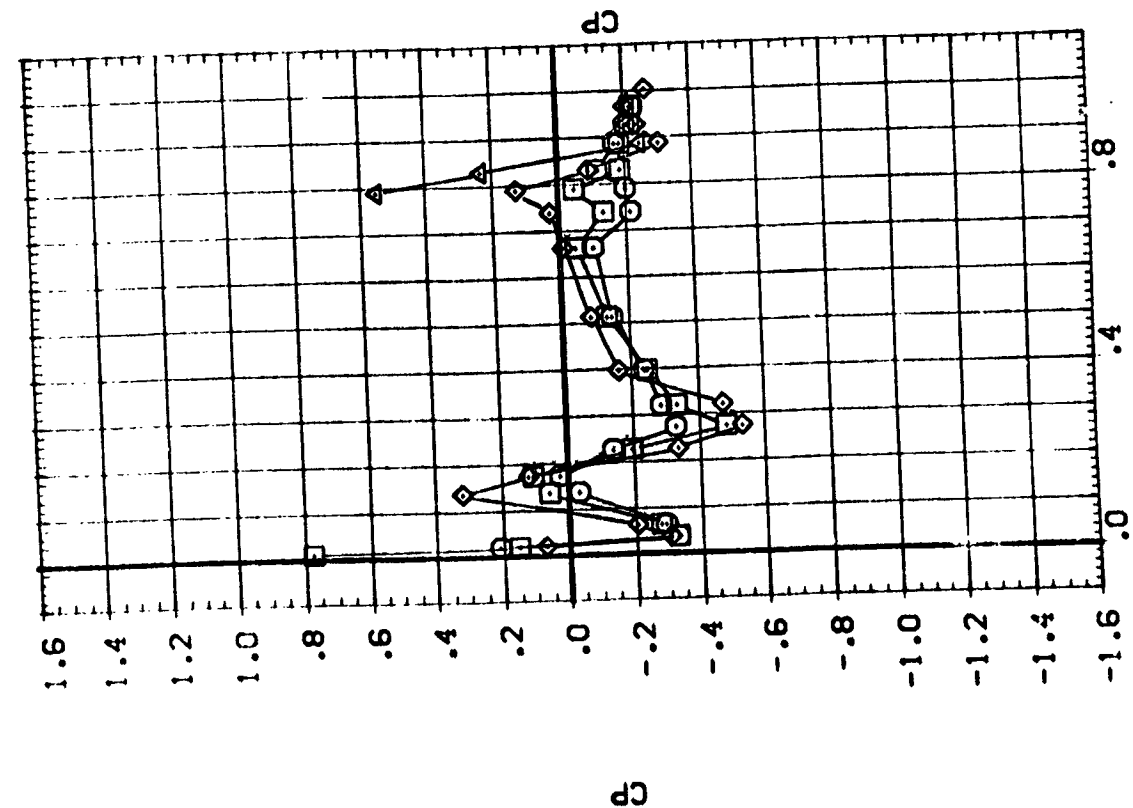
AMES 11-707 1A9 C2A + S3 + T9 ORBITER FUSELAGE (RBMB11)

SYMBOL
 O
 I
 Δ

PHI
 70.000
 90.000
 120.000
 135.000

BETAT MACH
 4.130 1.247
 9.250

PARAMETRIC VALUES
 8.000 ORBINC .500
 .000 ELEVON .000
 ALPHAT
 RUDDER
 RUOFLR



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES



AMES 11-707 1A9 02A + 3 + 19 ORBITER FUSELAGE (RBM11)

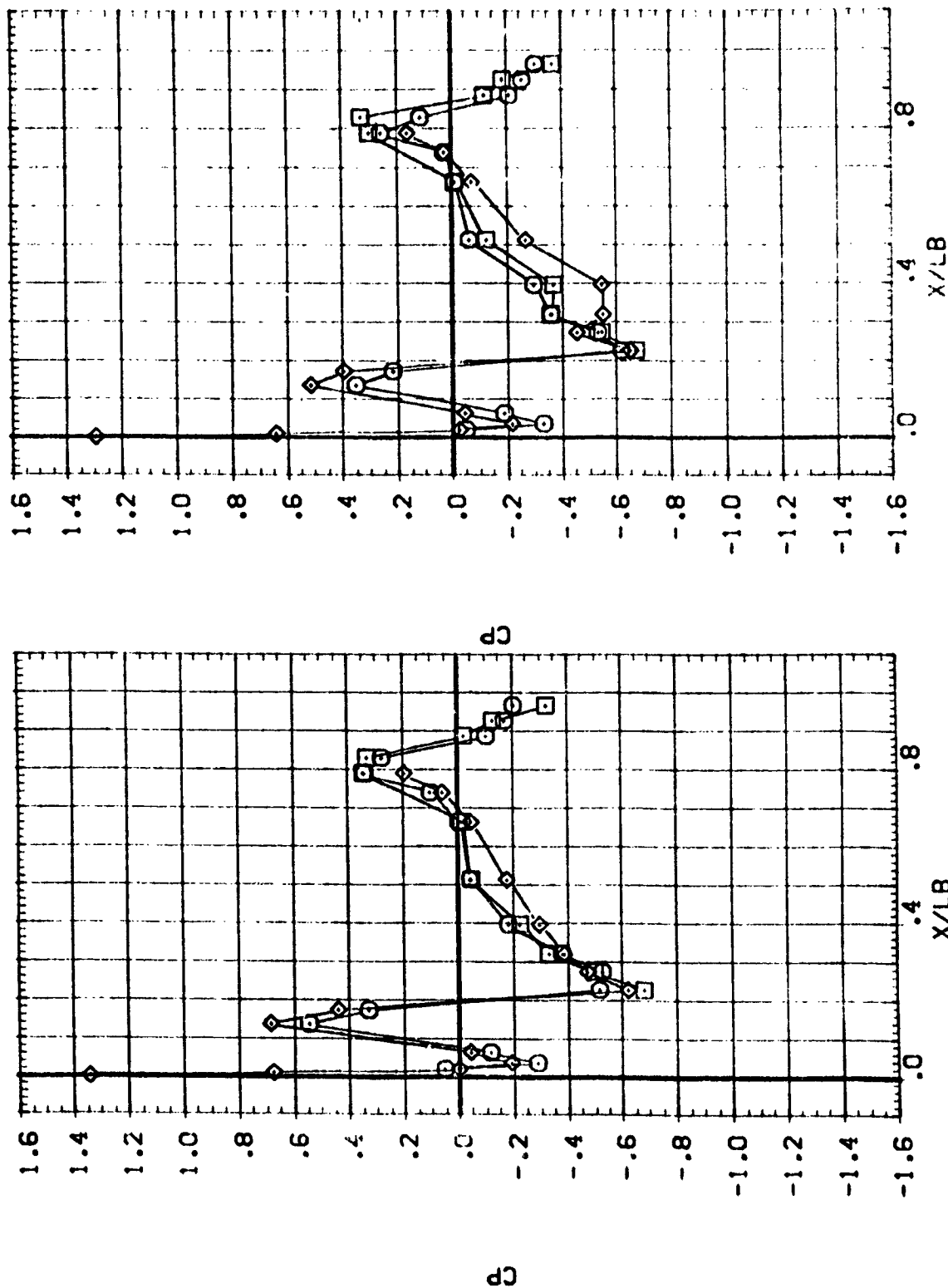
SYMBOL
□
○
◇

PHI
150.000
165.000
180.000

BETAT
4.130
8.750

MACH
1.247

PARAMETRIC VALUES
ALPHA 8.000
RUDER .000
RUDER .000
ELEVON .500
ELEVON .000



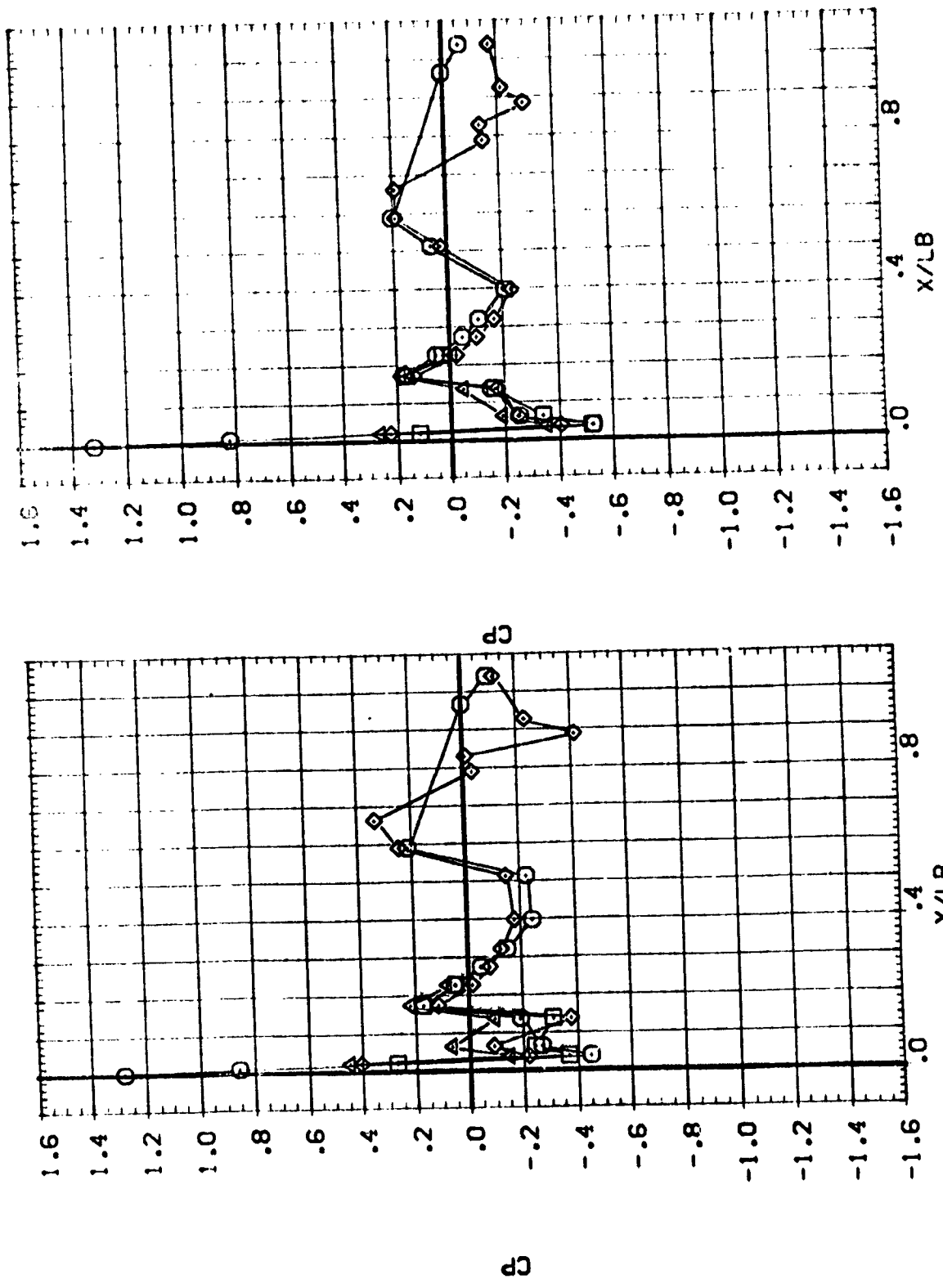
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES



AMES 11-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (RBMB16)

PARAMETRIC VALUES
 ALPHAT .000 ORBITAL .500
 RUDDER -5.000 ELEVON .000
 RUDDER .000

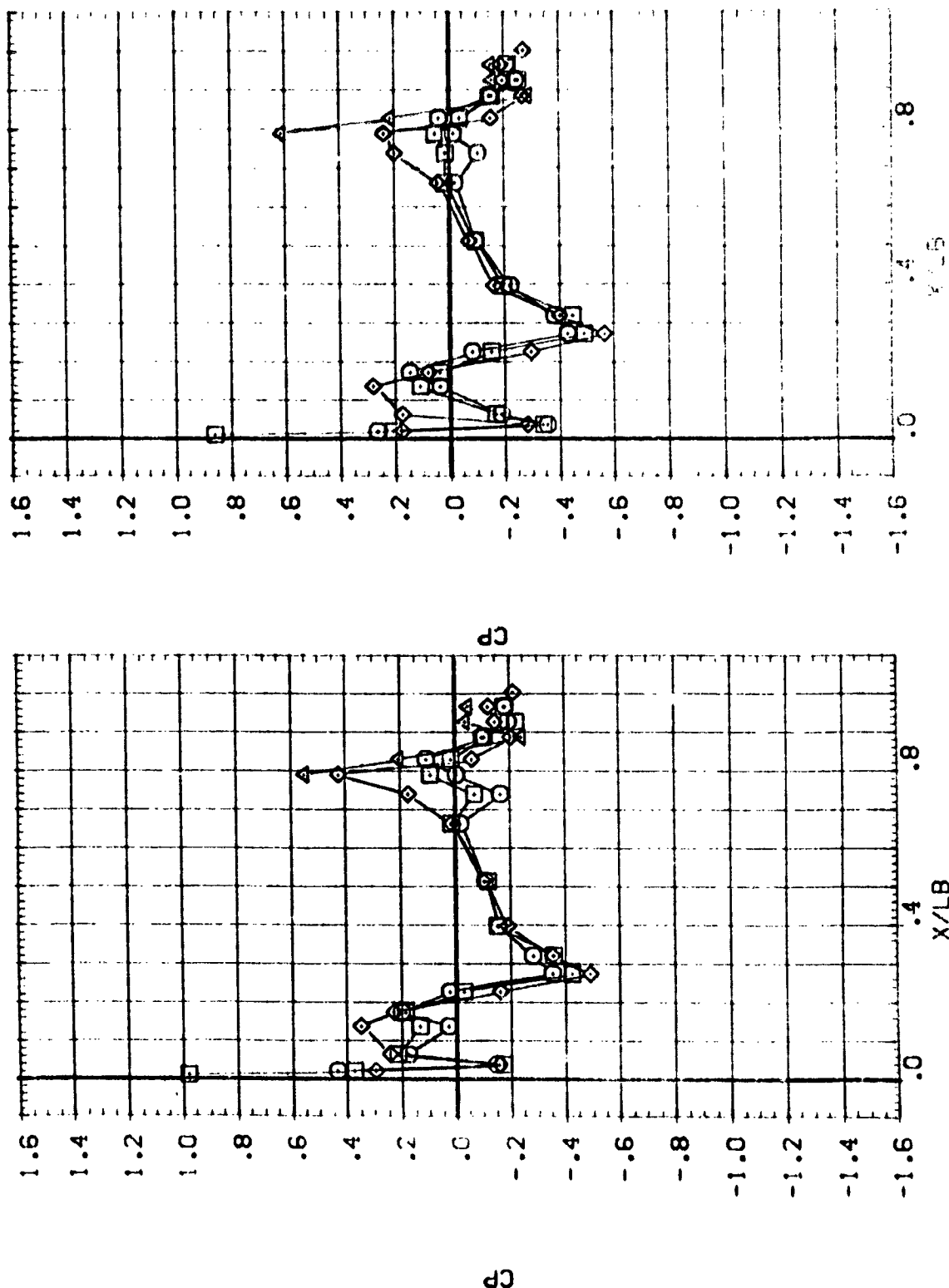
SYMBOL PH-1 BETAT MAC-
 0.000 -4.000 1.098
 20.000 .020
 40.000
 55.000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AVES 11-707 :A9 02A + S3 + 79 ORBITER FUSELAGE (RBM3:6)

SYMB-	PAI	BETAT	MACH	PARAMETRIC VALUES
○	70.000	-4.090	1.098	ALPHAT .000
□	90.000	.020		RUBBER .000
◇	120.000			ELEVAT. .000
△	135.000			RUDER .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 11-707 1A9 C2A + S3 + T9 ORBITER FUSELAGE (RBMB16)

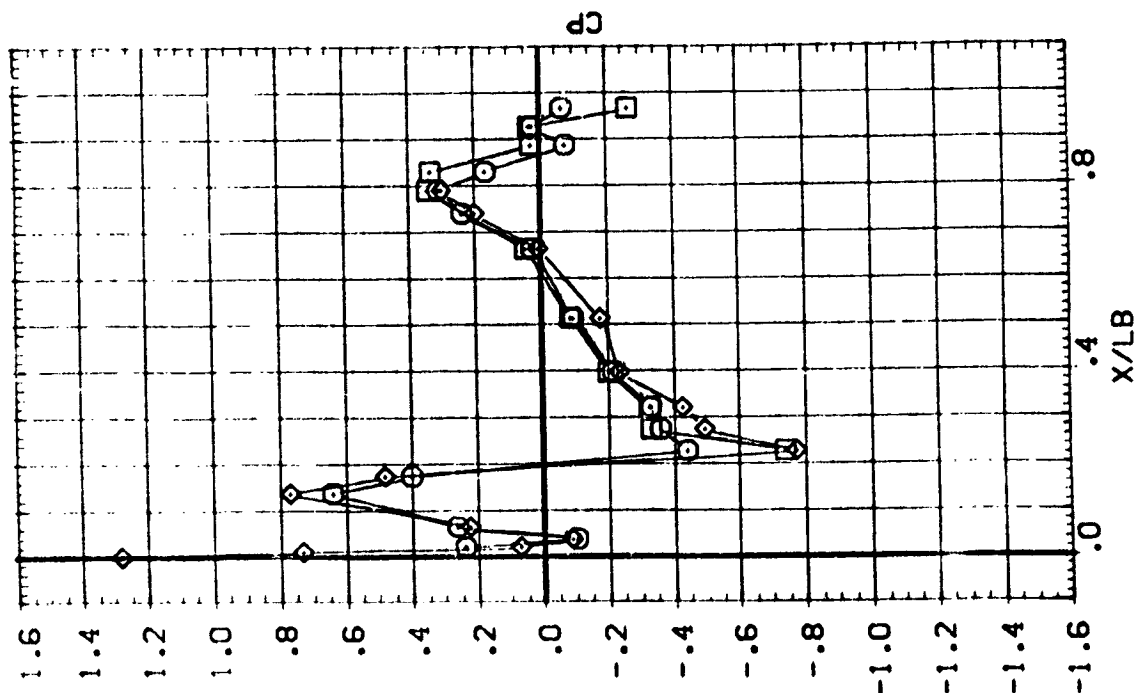
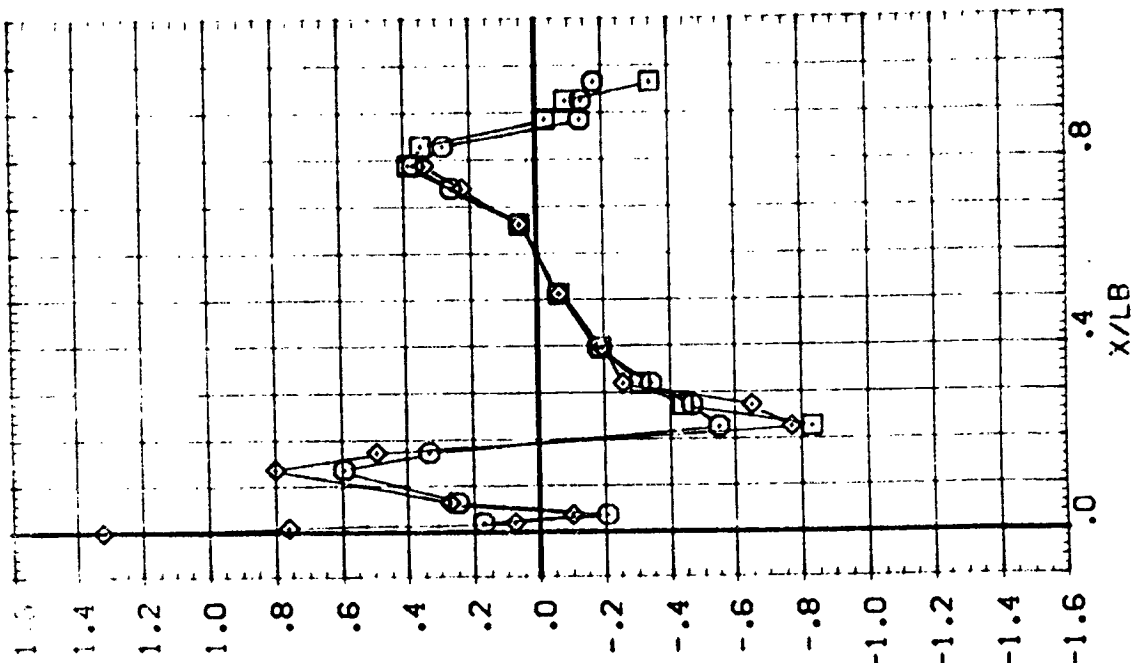
PARAMETRIC VALUES
 .000 .000 .000
 .000 .000 .000
 .000 .000 .000

ALPHA
 RUDDER
 RUDDER

SYMBOL
 50.000
 65.000
 80.000

BETA
 -4.090
 .070

MACH
 1.098



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AVES 11-707 :A9 C2A + S3 + T9 ORBITER FUSELAGE (RBMB16)

SYMBOL
 ○ □ ◇ △

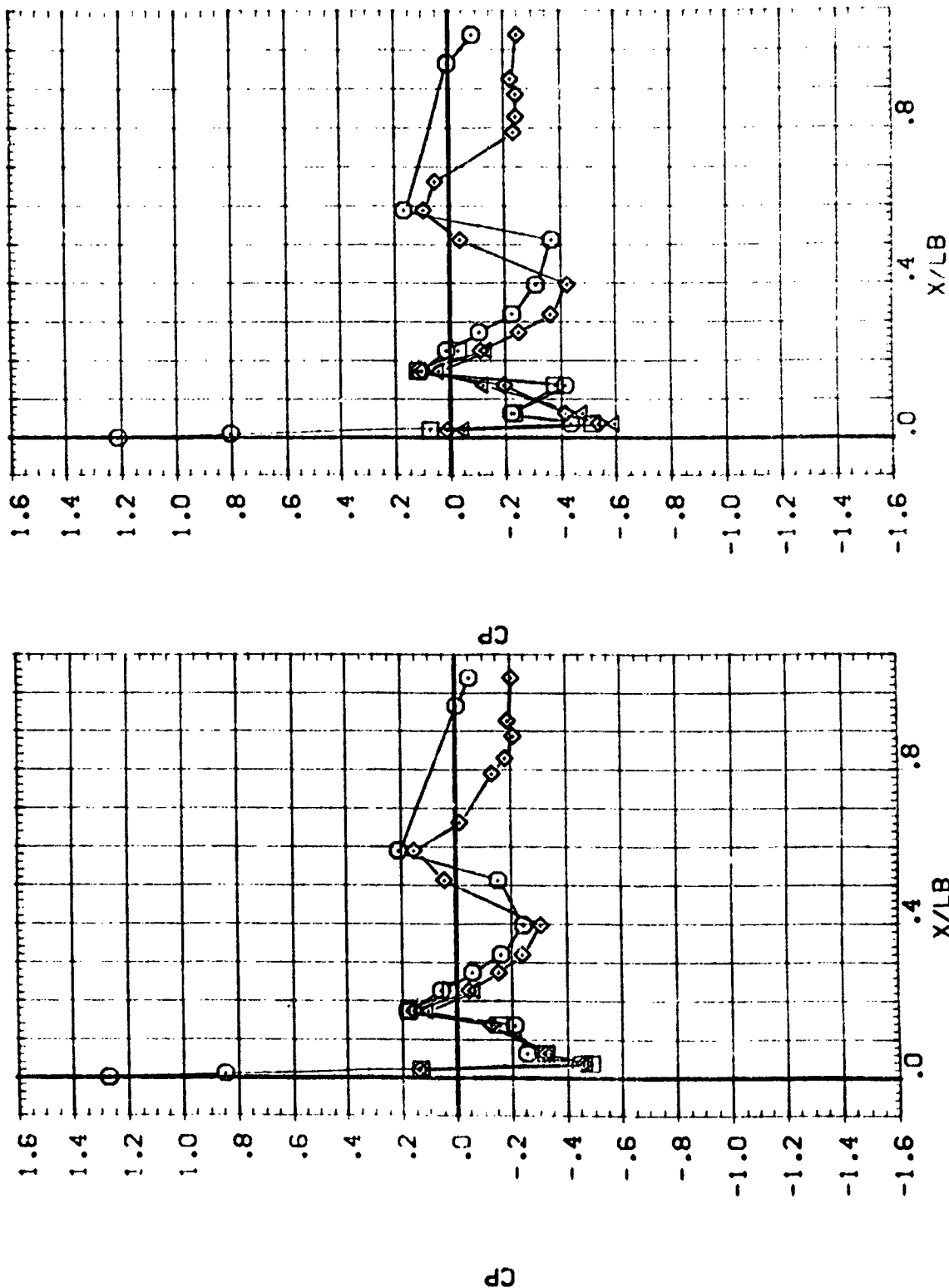
PH: .000
 20.000
 40.000
 55.000

BETAT
 4.130
 8.250

MAC= 1.00

PARAMETRIC VALUES
 ALPHAT .000
 RUDDER -5.000
 RUDFLR .000

.500
 .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES



AMES 11-707 1A9 02A + S3 + 19 ORBITER FUSELAGE (RBMB16)

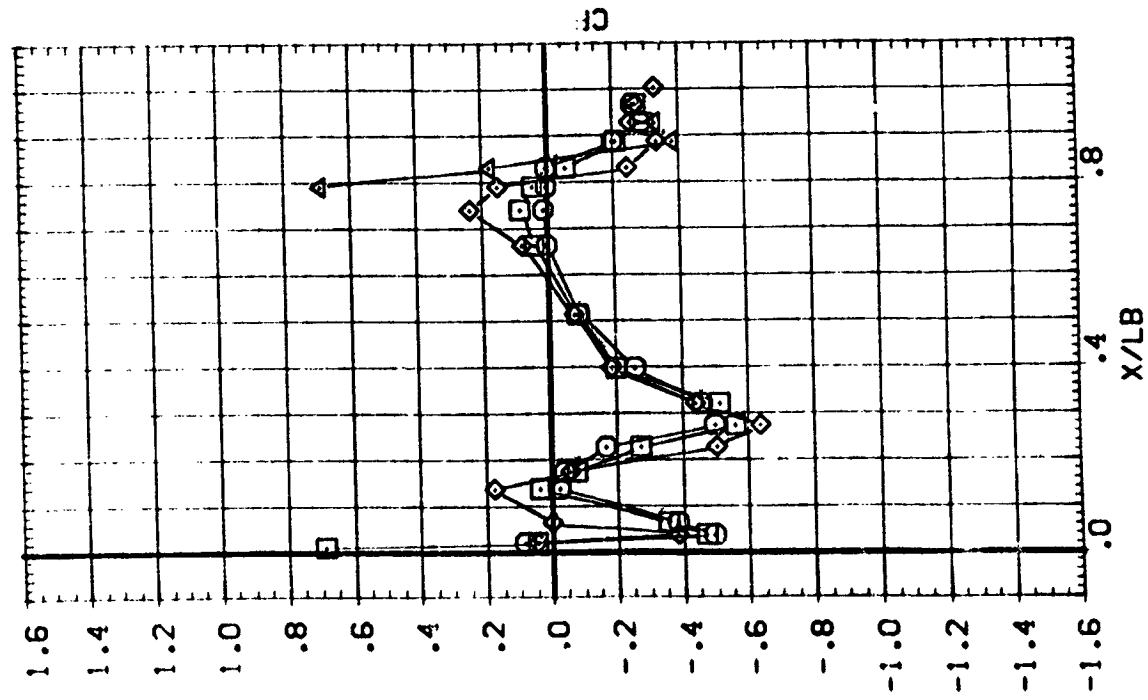
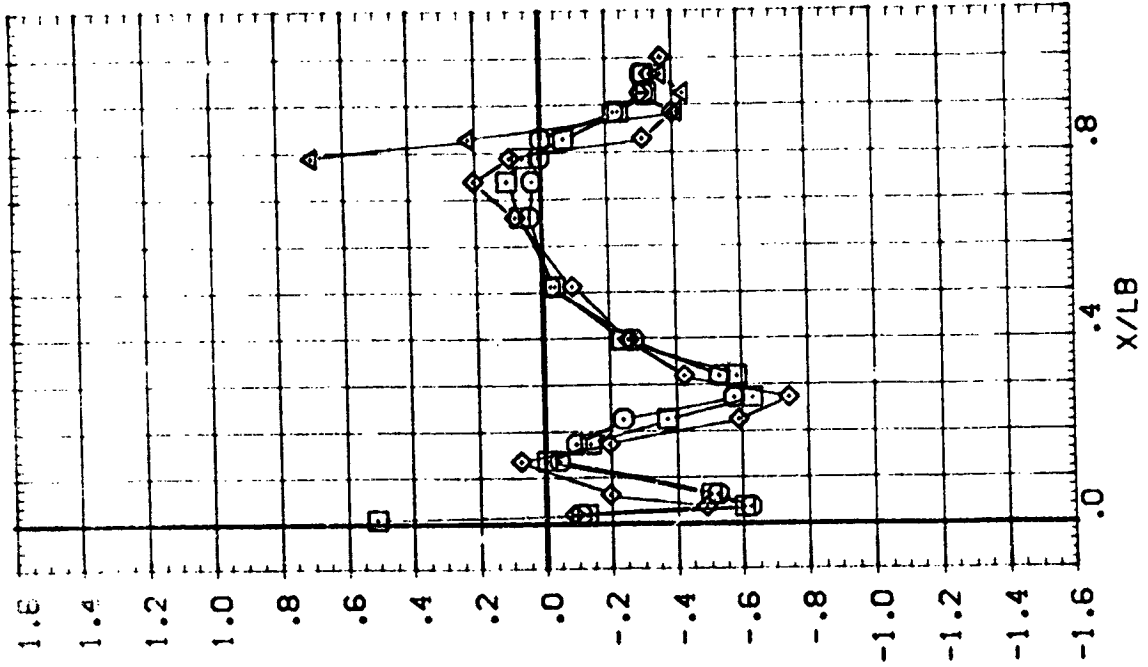
SYMBOL
O
□
◇
△

PHI
70.000
90.000
120.000
135.000

BETAT
4.130
8.250

MACH
1.100

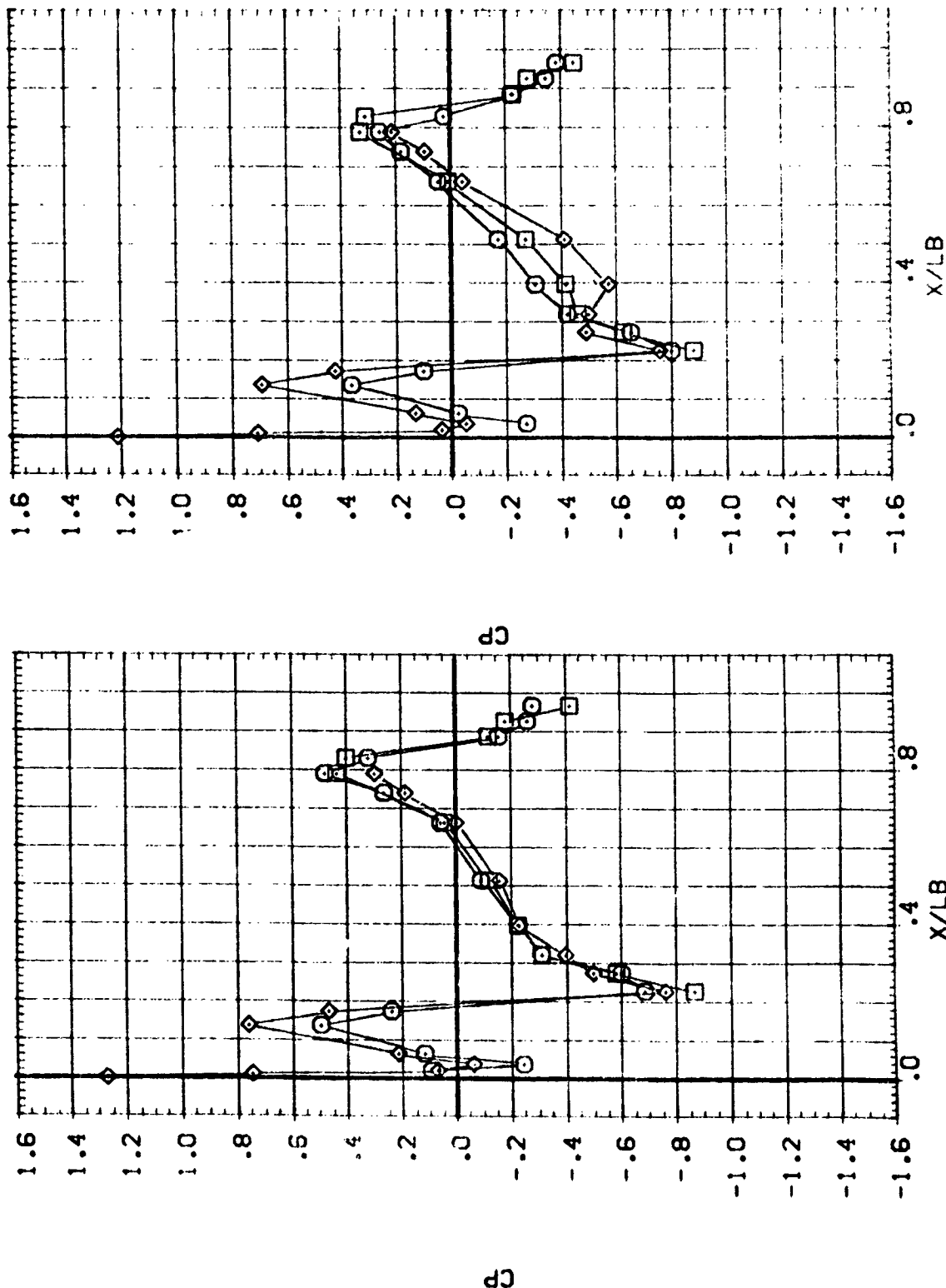
PARAMETRIC VALUES
ALPHAT .000 ORBITINC .500
RUDDER -5.000 ELEVON .000
RUDDER .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 11-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (RBMB16)

SYMBOL	PHI	BETAT	MACH	PARAMETRIC VALUES
○	150.000	4.130	1.100	ALPHAT
□	165.000	8.250		RUDER
◇	180.000			RUDFLR
				.000
				-5.000
				.000
				.000
				.500

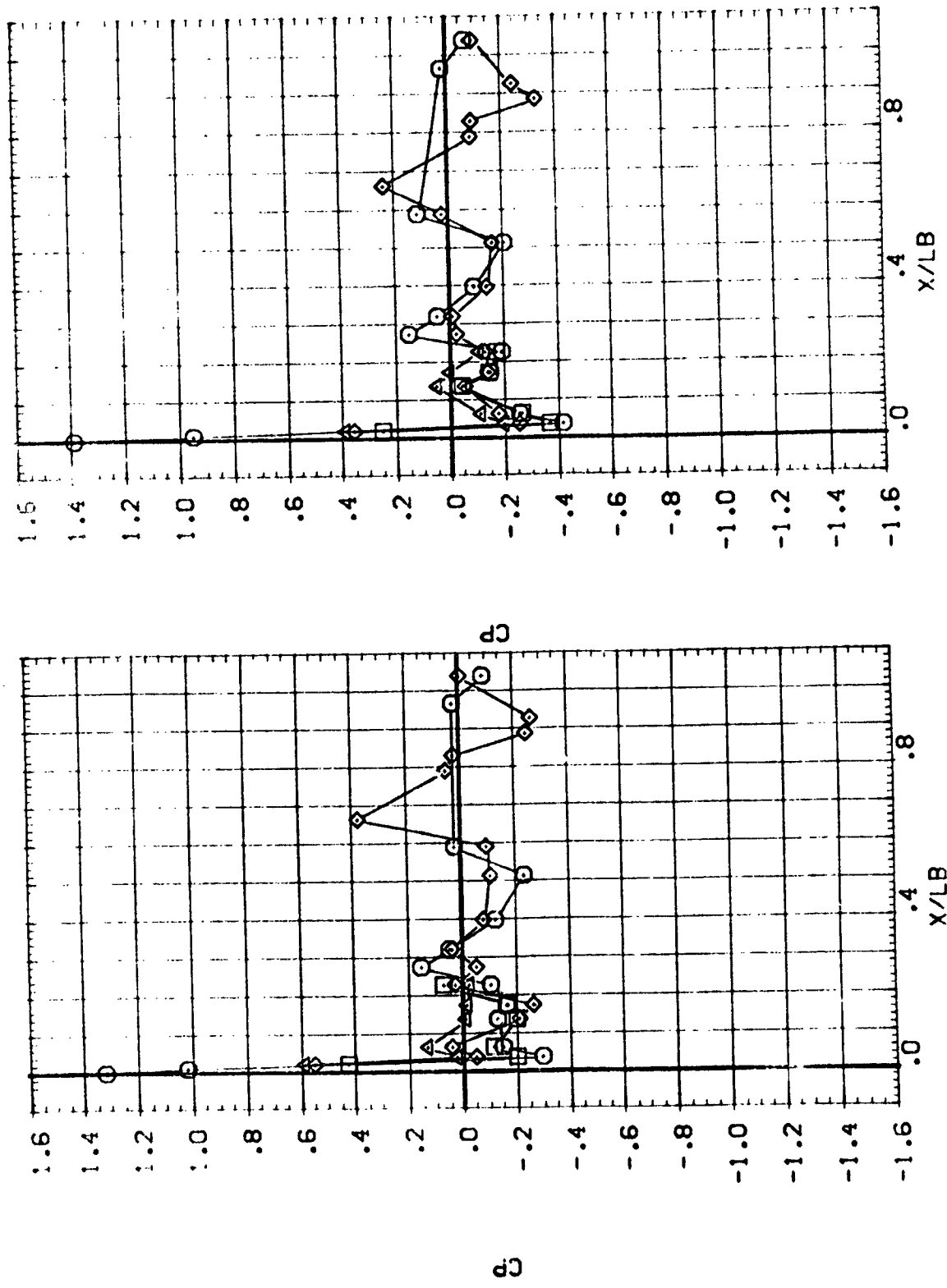


LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES



AMES 11-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (RBMB16)

SV-50	BETA	MACH	PARAMETRIC VALUES	
1000	-4.070	1.249	ALPHA	ORBITING
20000	.020		RUDER	ELEV
40000			RUDER	
55000				



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AVES 11-707 1A9 02A + S3 + 9 ORBITER FUSELAGE (RBMB16)

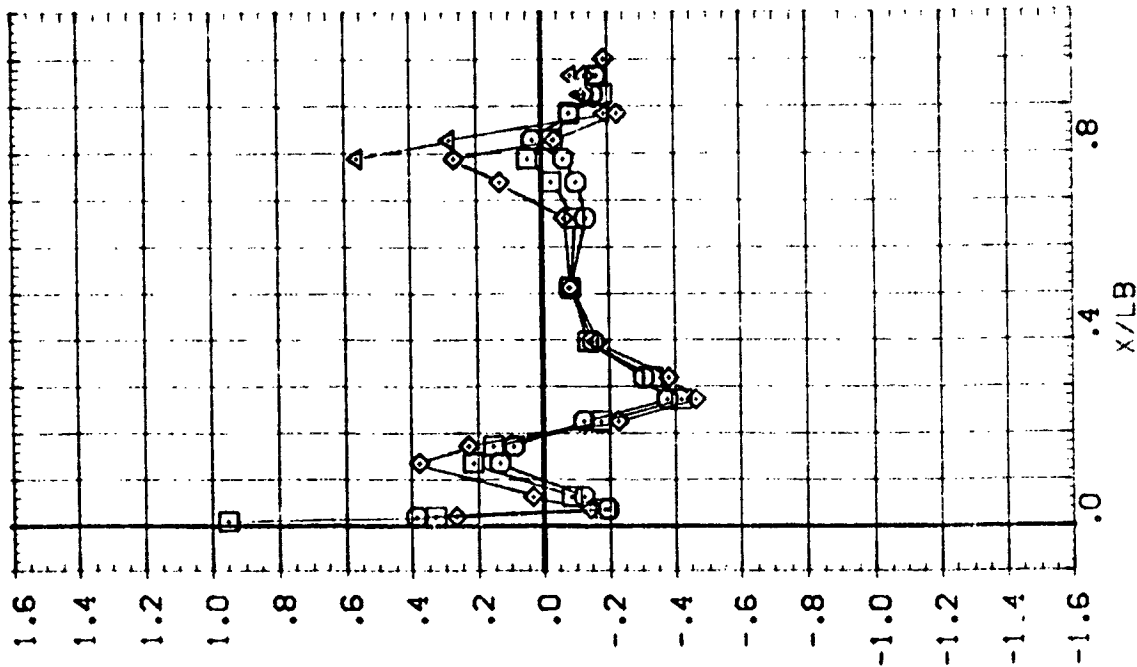
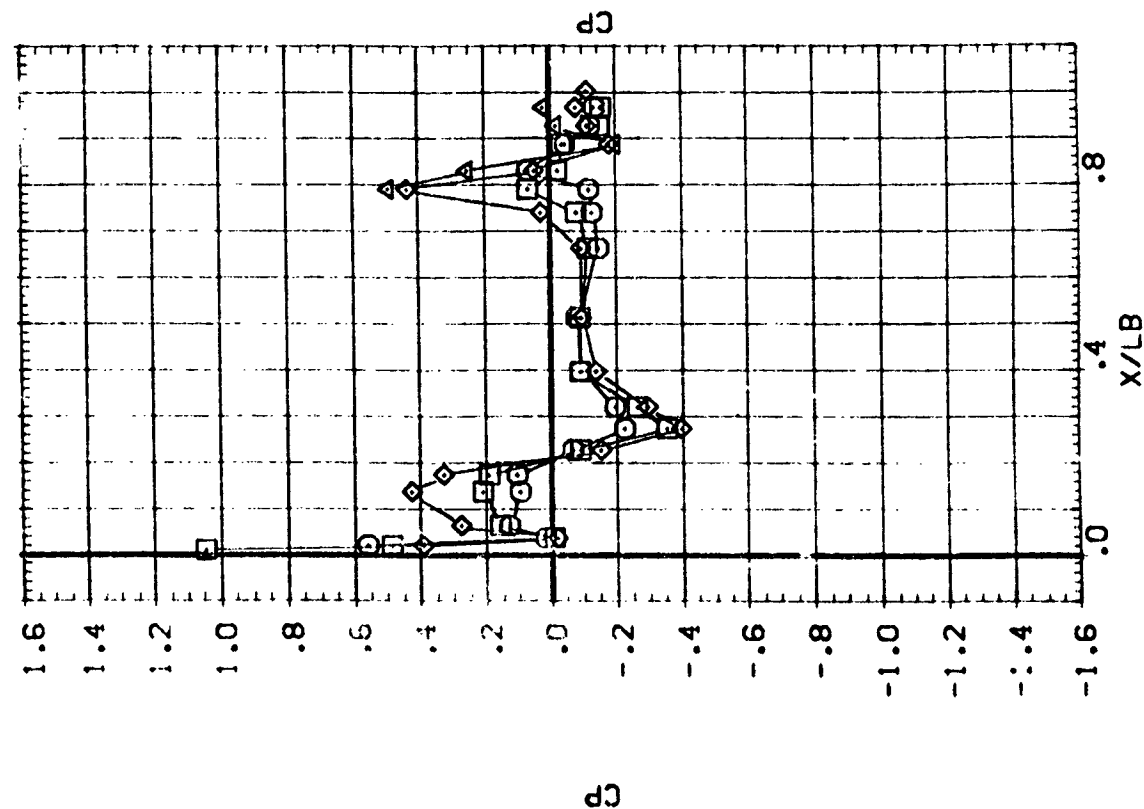
SYMBOL
 ○ □ ◇ △

PHI
 70.000
 90.000
 120.000
 135.000

BETA
 -4.070
 .020

MAC
 1.249

PARAMETRIC VALUES
 ALPHA1
 RUDER
 RUDLR
 .000
 -5.000
 .000
 CRB1NC
 ELEVON
 .500
 .000

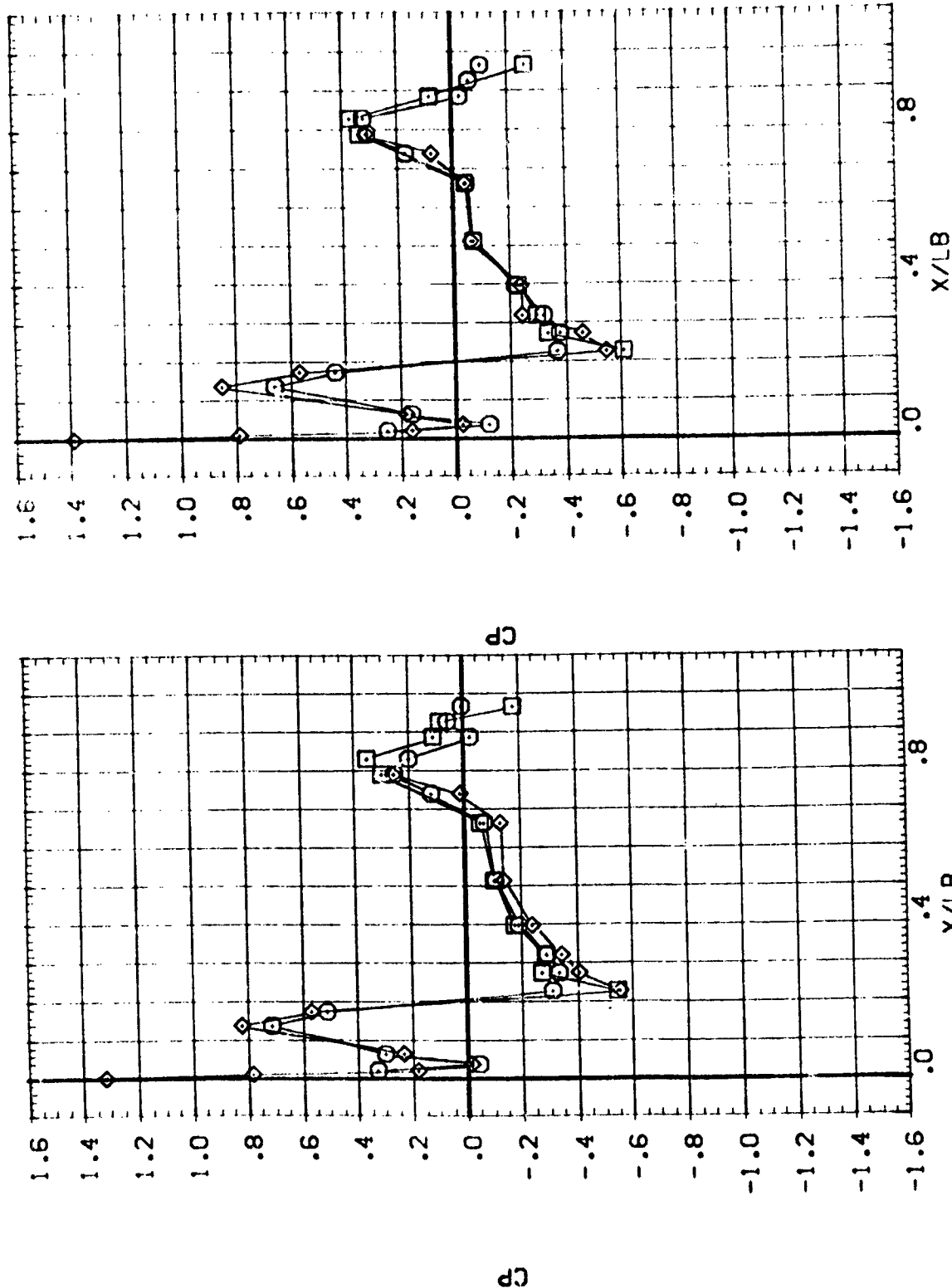


LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES



AVES 11-707 IAG C2A - S3 + T9 ORBITER FUSELAGE (RBMB16)

SYMBOL	PHI	BETAT	MACH	PARAMETRIC VALUES
○	:50.000	-4.070	1.249	ALPHA°
◇	:65.000	.020		RUDER
	:80.000			RUDFLR
				ORBITC
				ELEV°
				.500
				.000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

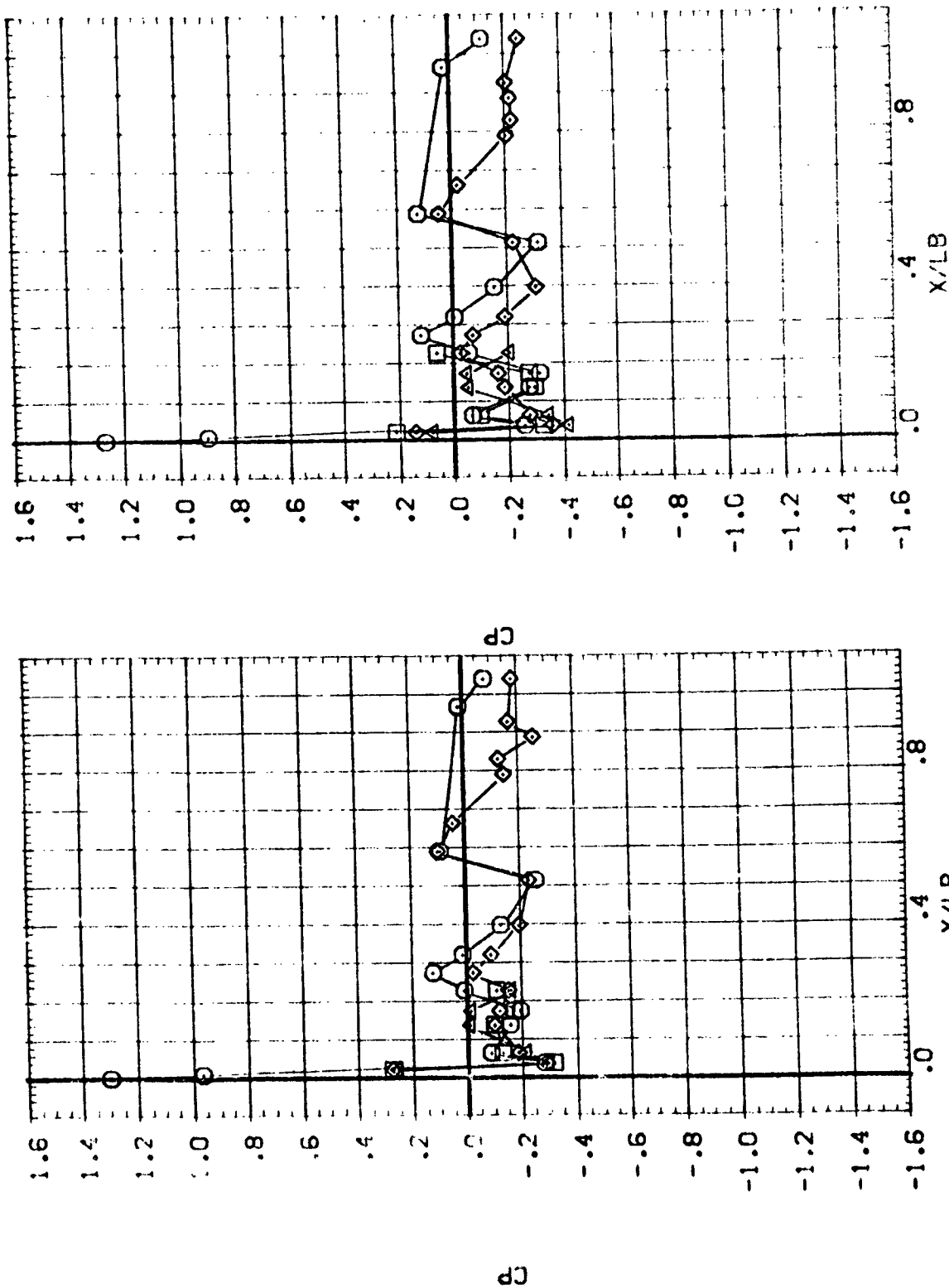


AVES 11-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (RBMB3:6)

PARAMETRIC VALUES
 ALPHA1 .000 3RBING .500
 RUDDER -5.000 ELEVON .000
 RUDDER .000

SYMBOL
 ○ 1
 □ 2
 ◇ 3
 △ 4

PHI BETAT MACH
 .000 4.110 1.244
 20.000 8.200
 40.000
 55.000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES



AVES 11-707 1A9 02A + S3 + 19 ORBITER FUSELAGE (RBMB162)

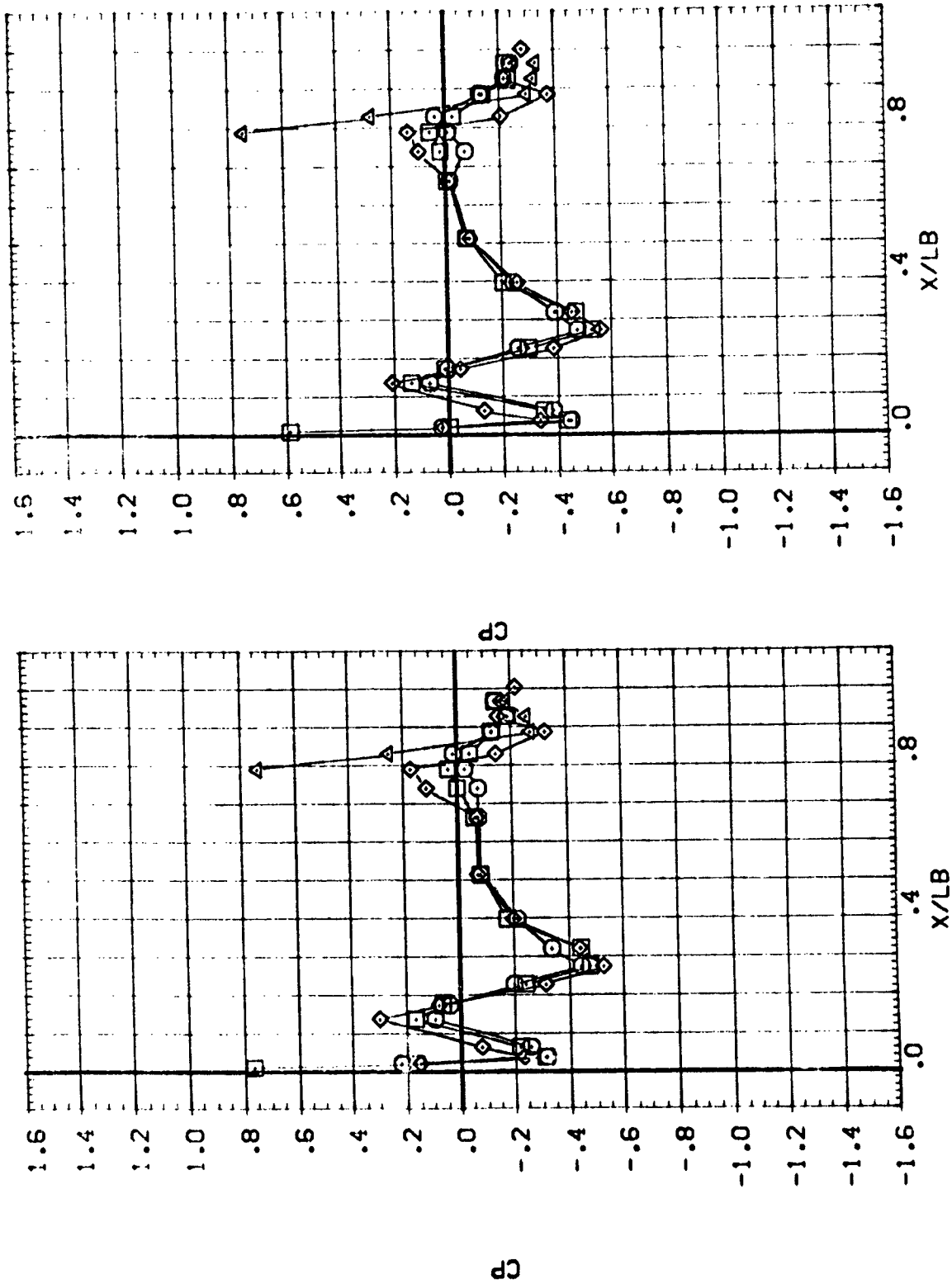
SYMBOL
 O
 □
 △

PM: 70.000
 80.000
 120.000
 135.000

BETA° 4.110
 8.200

MACH 1.244

PARAMETRIC VALUES
 .000 .000 .000
 .000 .000 .000
 .000 .000 .000
 .000 .000 .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AVES 11-707 :A9 02A + S3 + 19 ORBITER FUSELAGE (RBMB16)

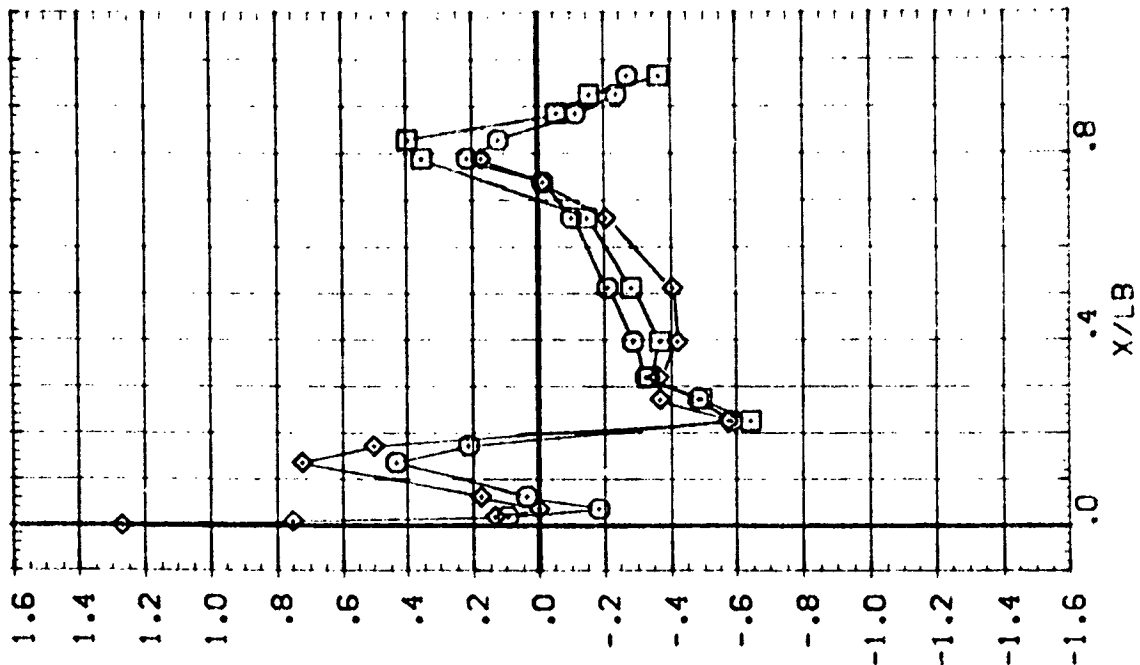
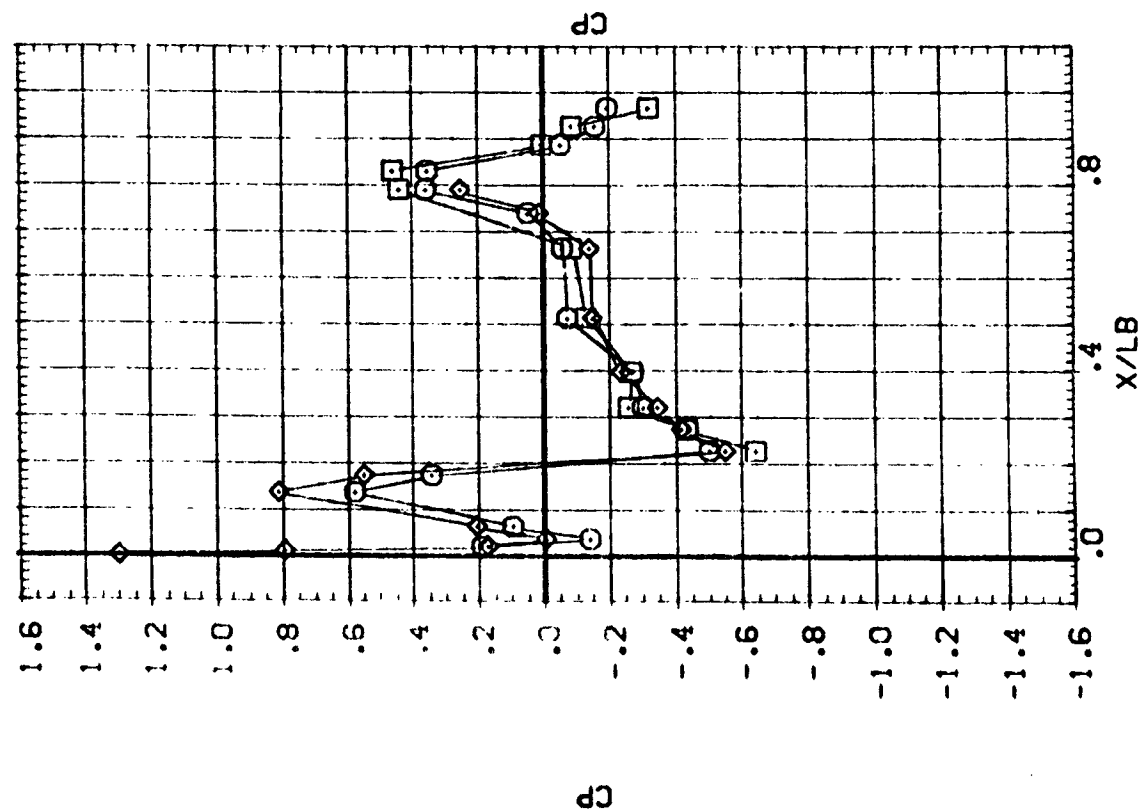
SYMBOL
 150.000
 165.000
 180.000

REYNOLDS
 150.000
 165.000
 180.000

BETA
 4.110
 8.200

MACH
 1.244

PARAMETRIC VALUES
 ALPHA 1.000
 RUDER 5.000
 RUDDER 1.000
 ELEVON 1.000
 500
 1.000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES



AVES 11-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (RBMB25)

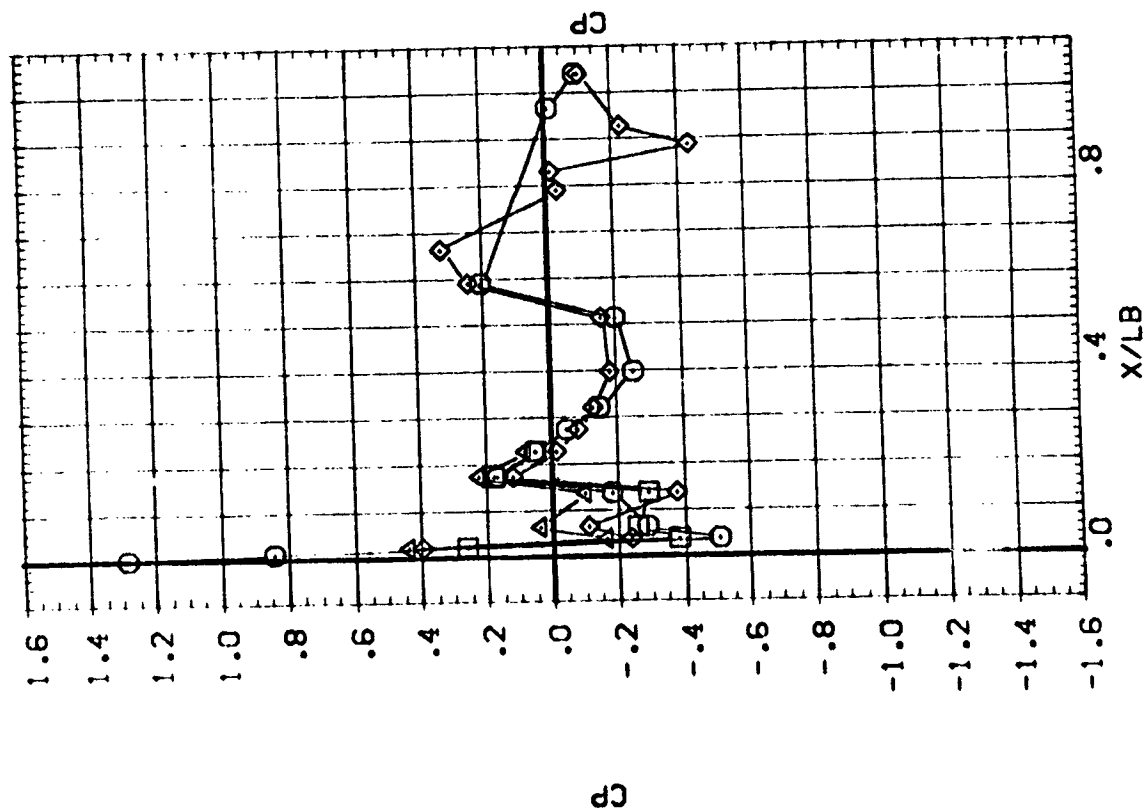
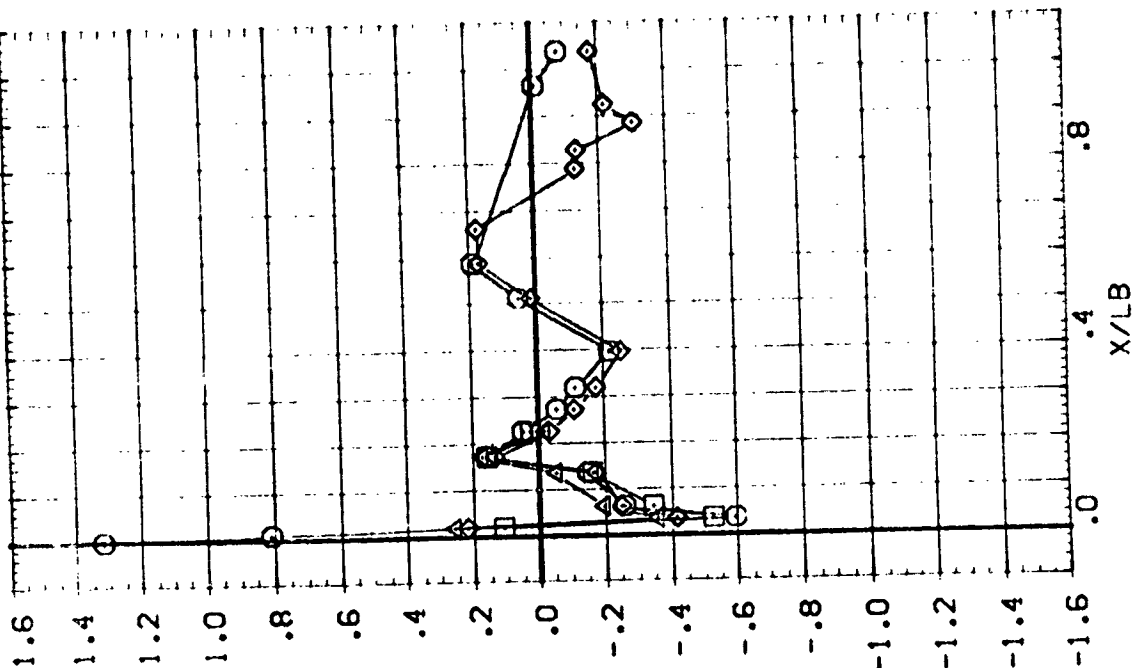
SYMBOL
◇
□
△
○

PH: .000
20.000
40.000
55.000

BETAT -4.090
.020

MACH 1.095

PARAMETRIC VALUES
ALPHA° .500
RUDDER .000
RUDFLR -10.000
ELEVEN .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES



AMES 11-707 :A9 C2A + S3 + T9 ORBITER FUSELAGE (RBMB25)

SYMBOL
 ()
 []
 ◇

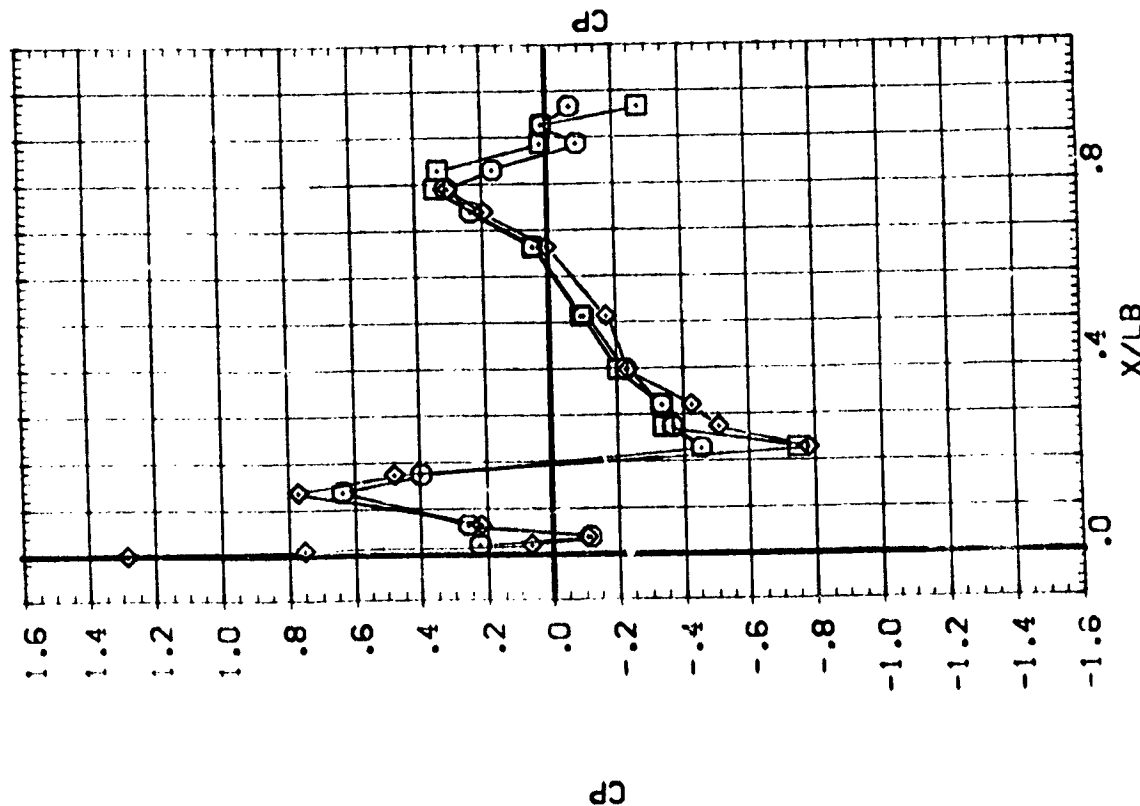
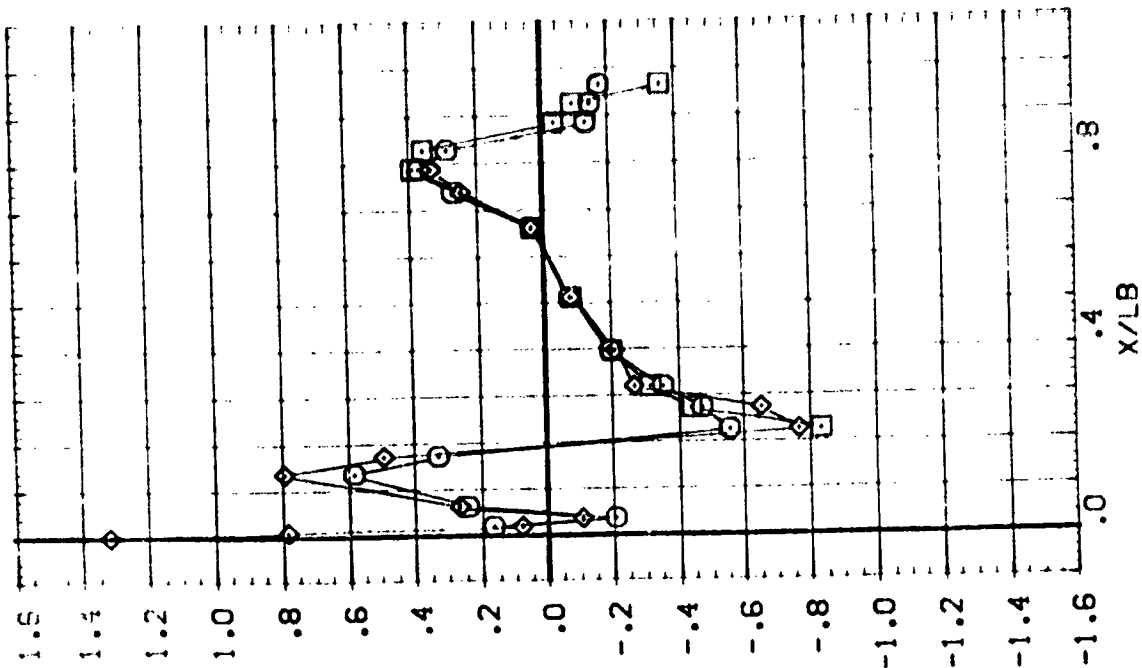
Q_∞:
 150.000
 165.000
 180.000

BETAT
 -4.090
 .020

MACH
 1.095

PARAMETRIC VALUES
 ALPHAT
 RUDER
 RUDFLP

.500
 .000
 .000
 .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

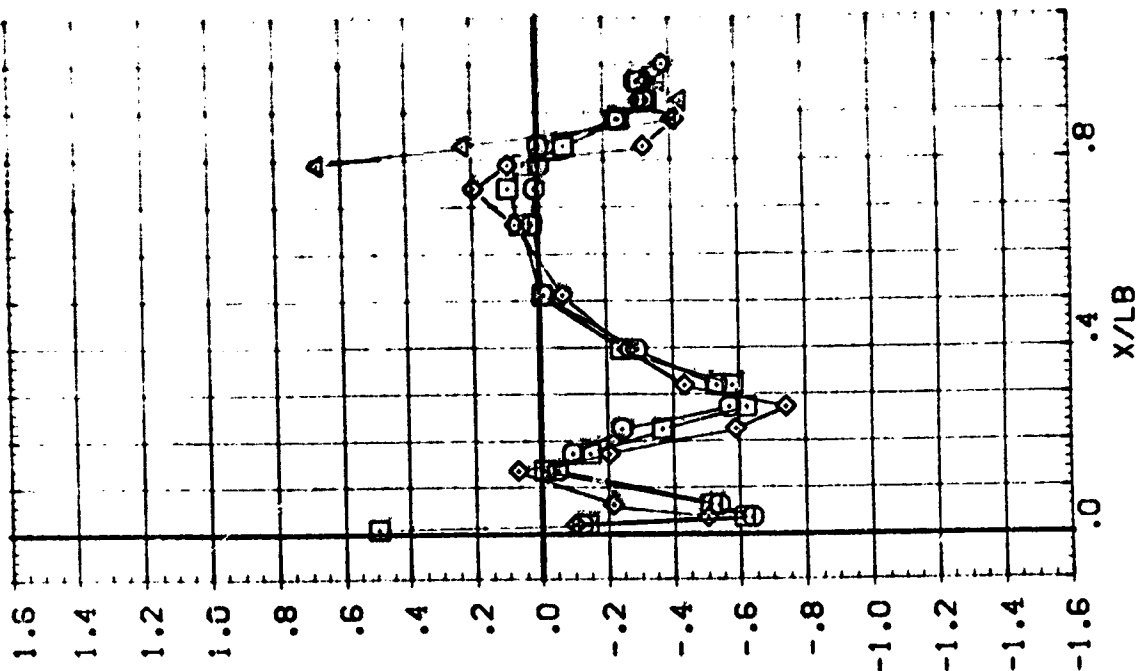
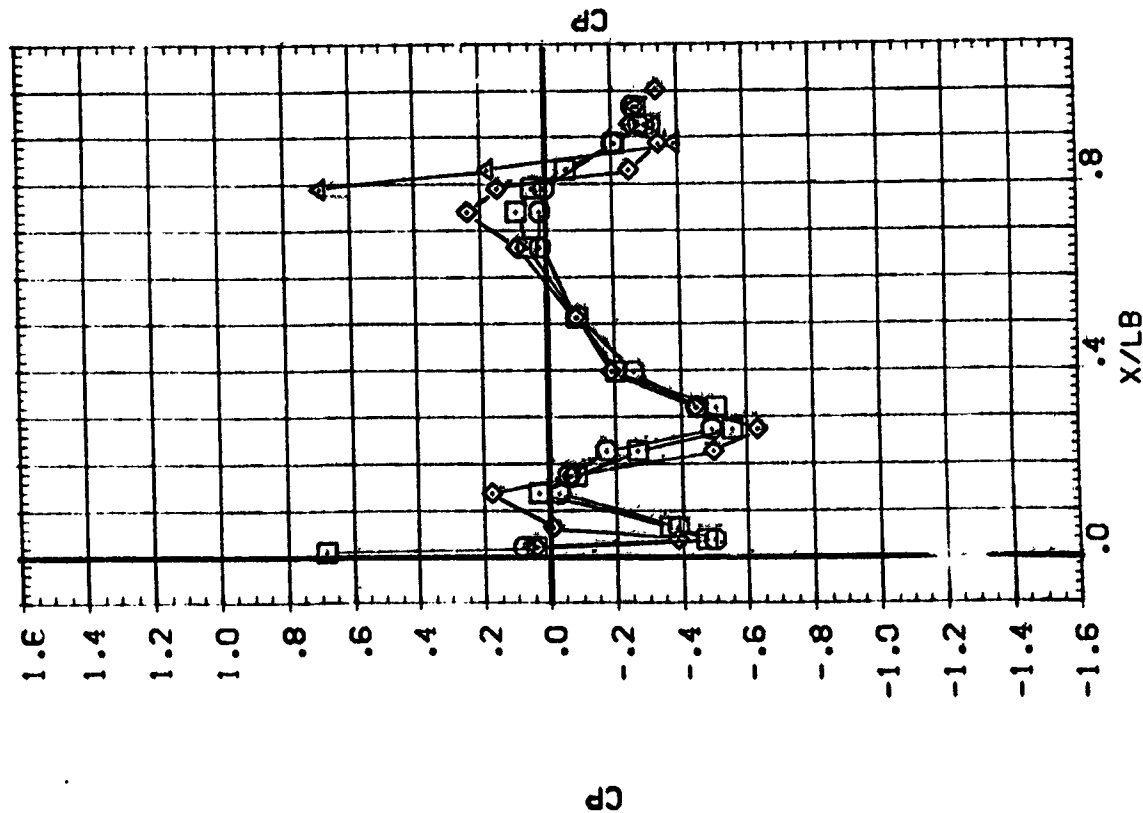
AMES 11-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (RBM325)

SYMBOL
 ○ □ ◇ △

PHI
 70.000
 90.000
 120.000
 135.000

BETAT MACH
 4.130 1.100
 8.260

PARAMETER VALUES
 ALPHA
 0.000
 0.000
 0.000
 0.000

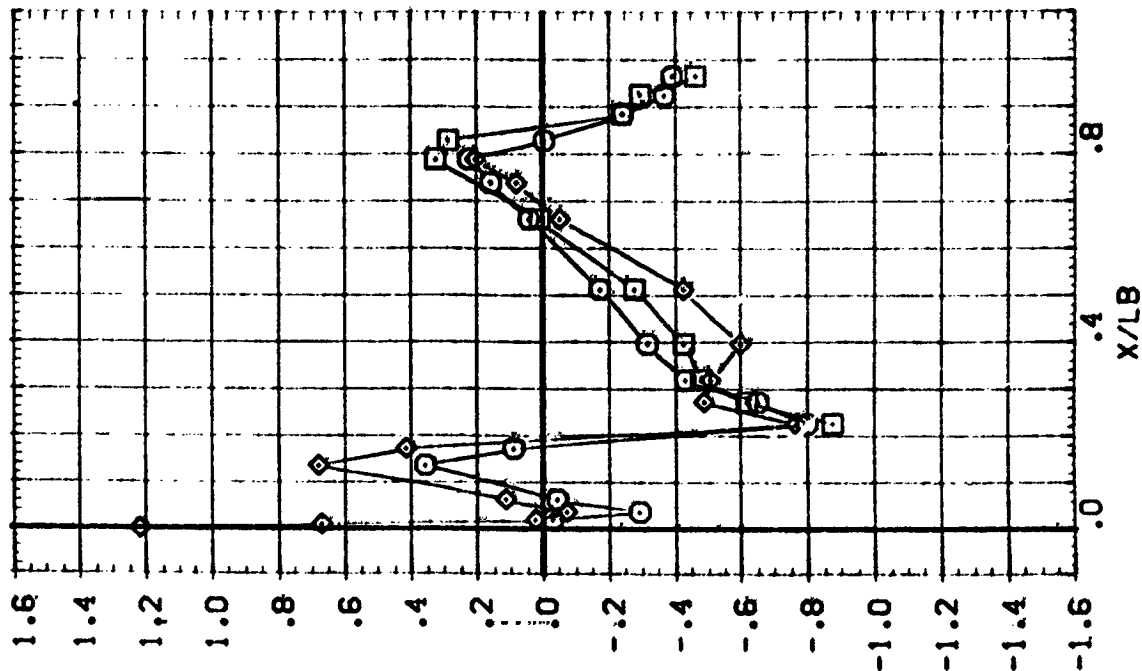
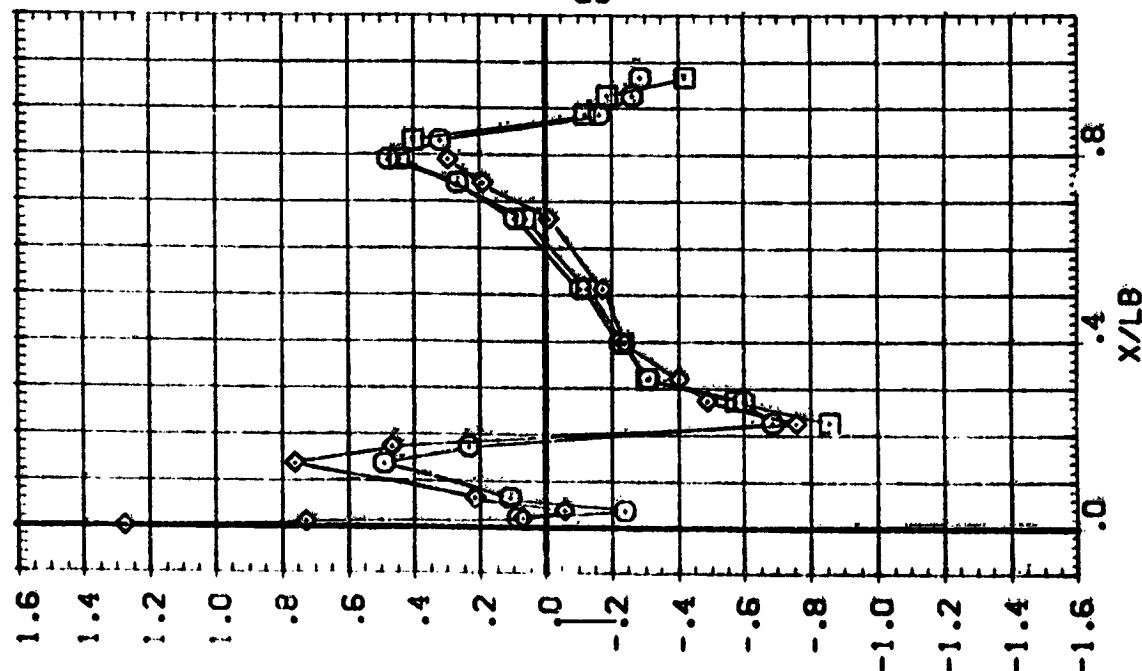


LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

SYMBOL
 O
 □
 ◇

SN: 150.000 4.130 1.100
 165.000 8.260
 180.000

PARAMETRIC VALUES
 ALPHAT .000 ORBINC .500
 RUDDER -10.000 ELEVON .000
 RUOFLR .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES



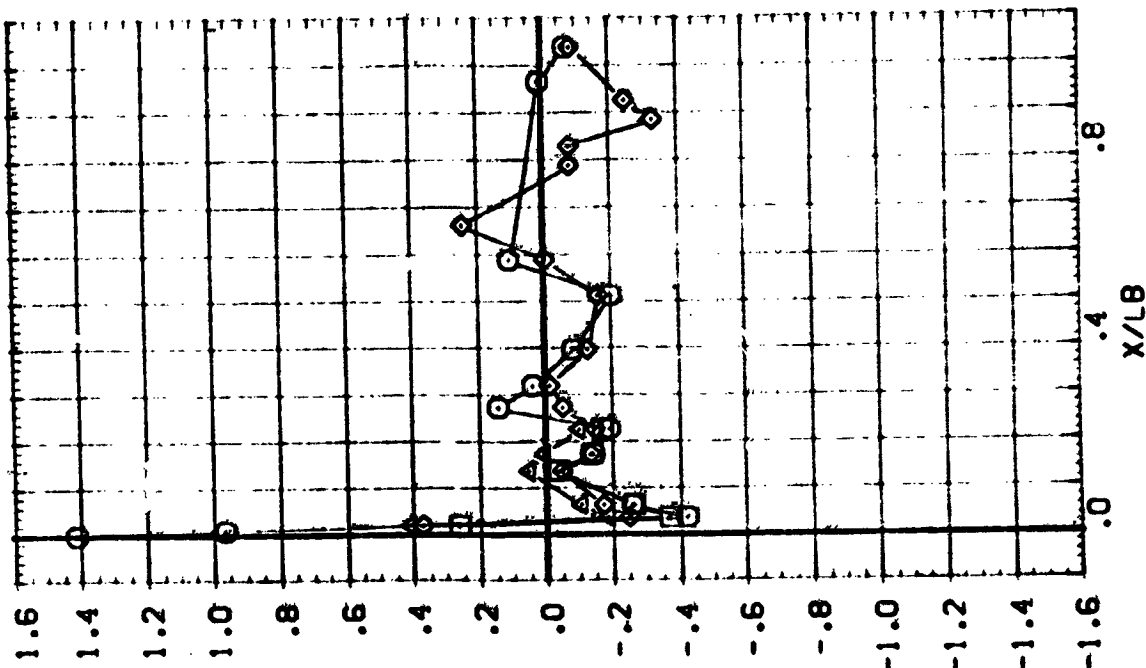
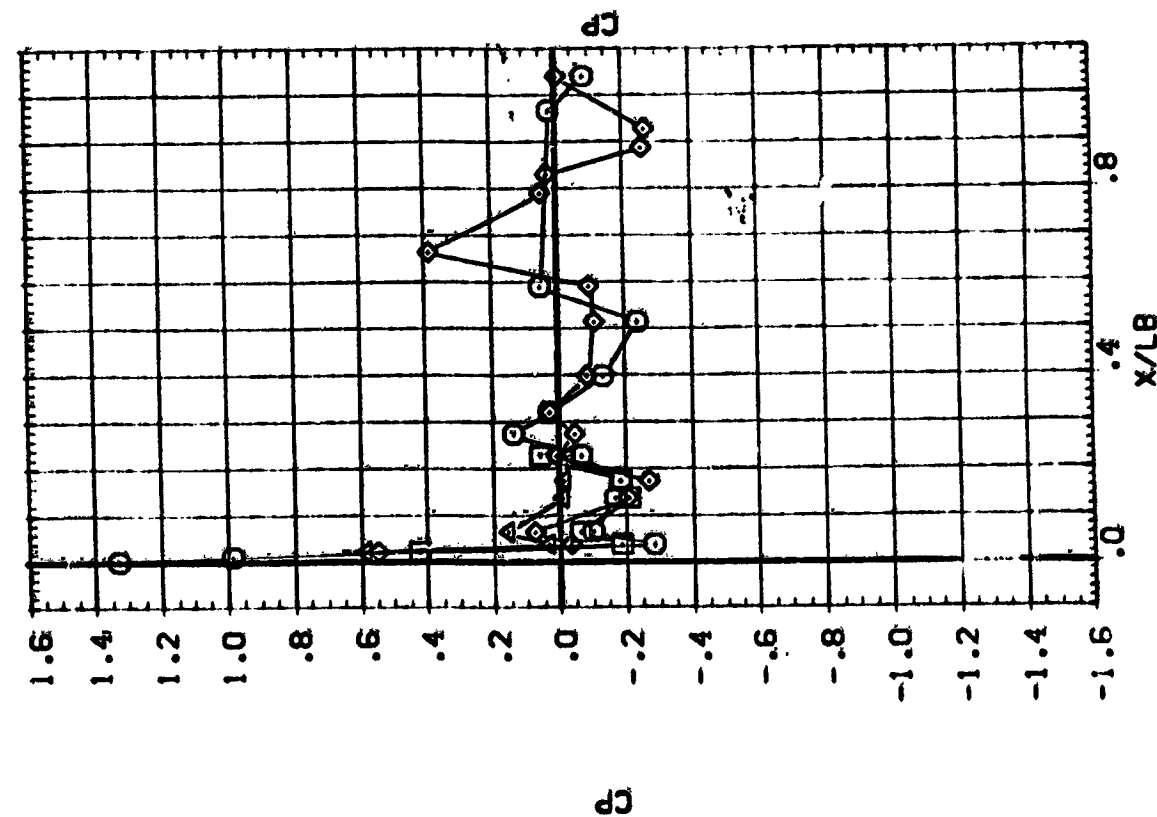
AMES 11-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (RBM825)

SYMBOL
 O □ ◇ △

PM1 .000
 20.000
 40.000
 55.000

BETAT -4.070
 MACH 1.246

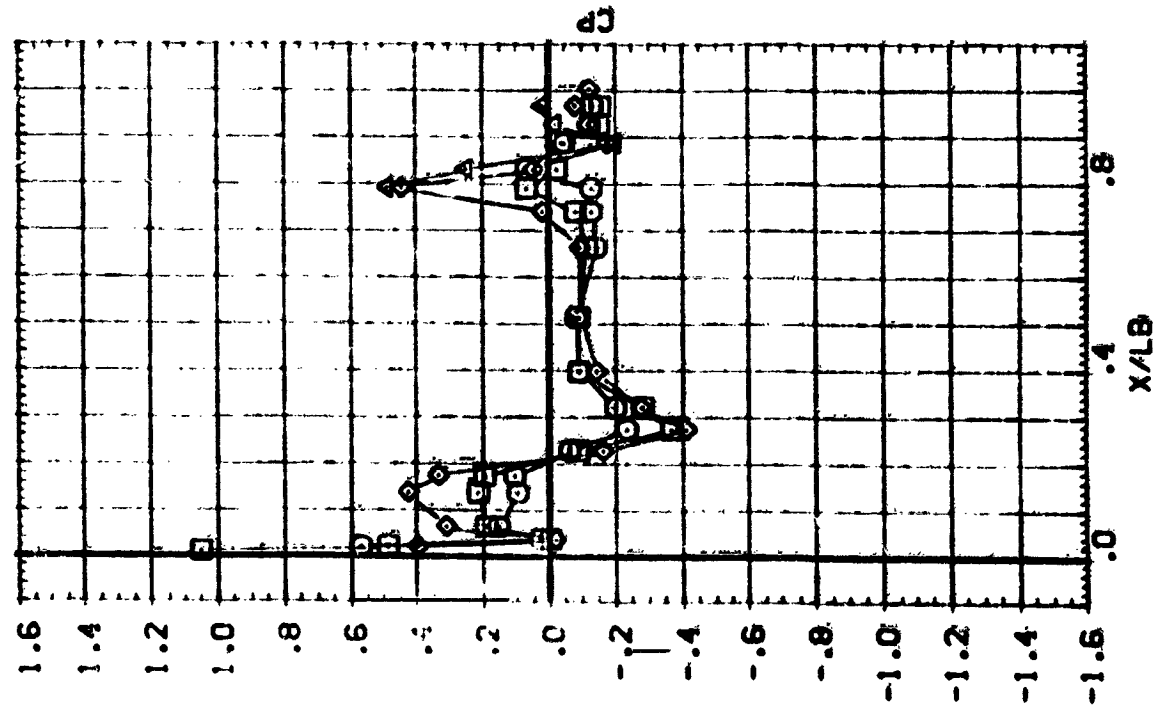
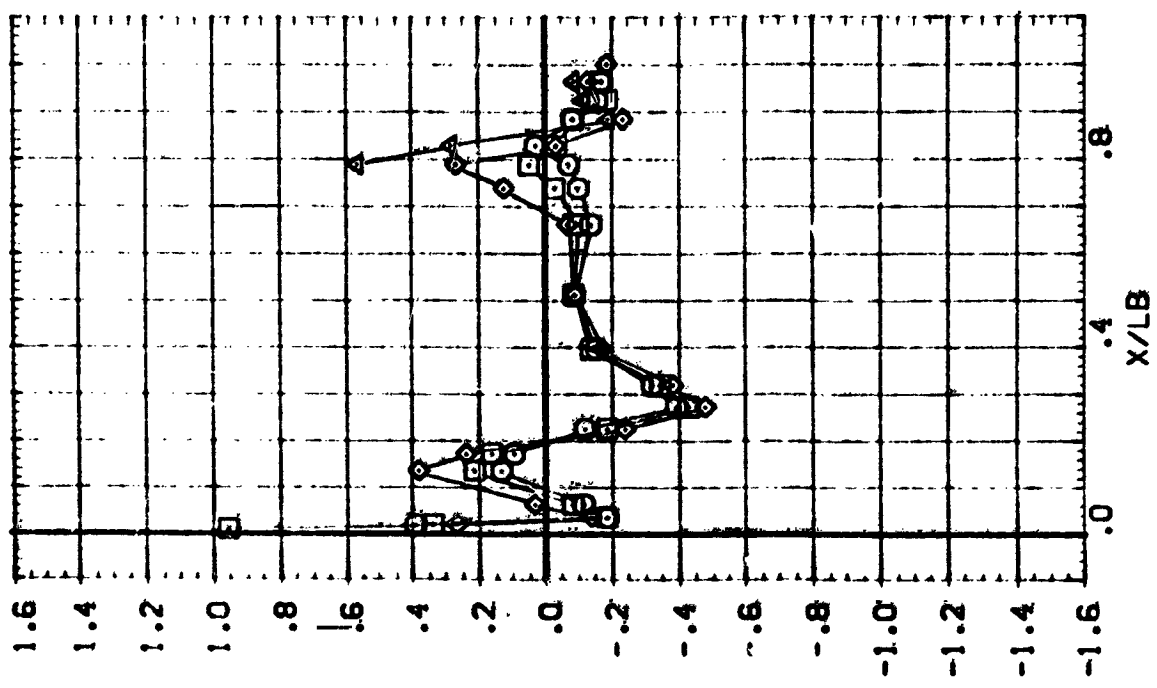
PARAMETRIC VALUES
 ALPHAT .000 ORBINE .500
 RJOER -10.000 ELEVON .000
 RJOELR .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

PARAMETRIC VALUES
 ALPHAT .000 0.791%
 R00009 -10.000 5.14%
 R00009 .000

SYMBOL
 70.000
 90.000
 120.000
 135.000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES



AMES 11-707 IAS 02A + S3 + T9 ORBITER FUSELAGE (RBM825)

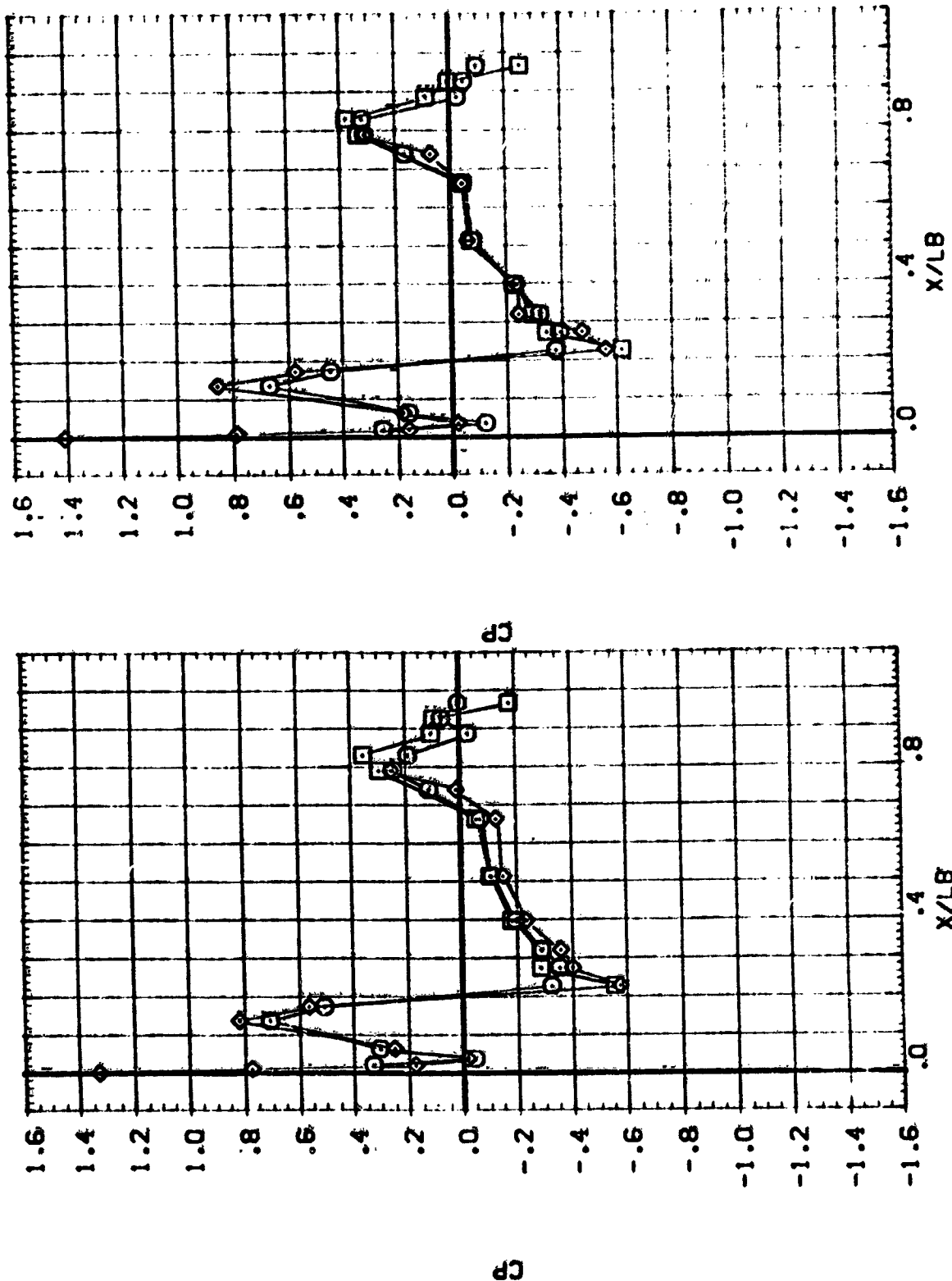
SYMBOL
○ □ ◇

PMI 150.000
100.000
180.000

BETA -4.070
.020

MACH 1.246

PARAMETRIC VALUES
ALPHA 1 .000 ORBINC .500
RUDDER -10.000 ELEVON .000
RUDFLG .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES



AMES 11-707 1A9 C2A + S3 + '9 ORBITER FUSELAGE (RBMB75)

SYMBOL

PHI

BETA

WACH

PARAMETRIC VALUES

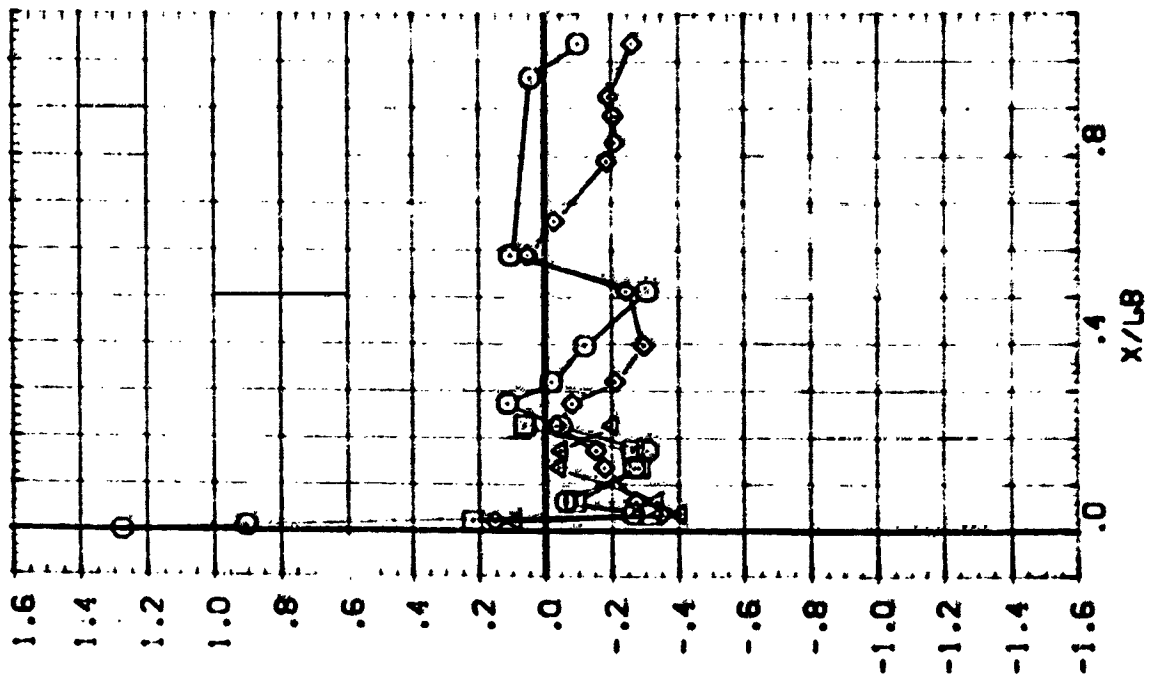
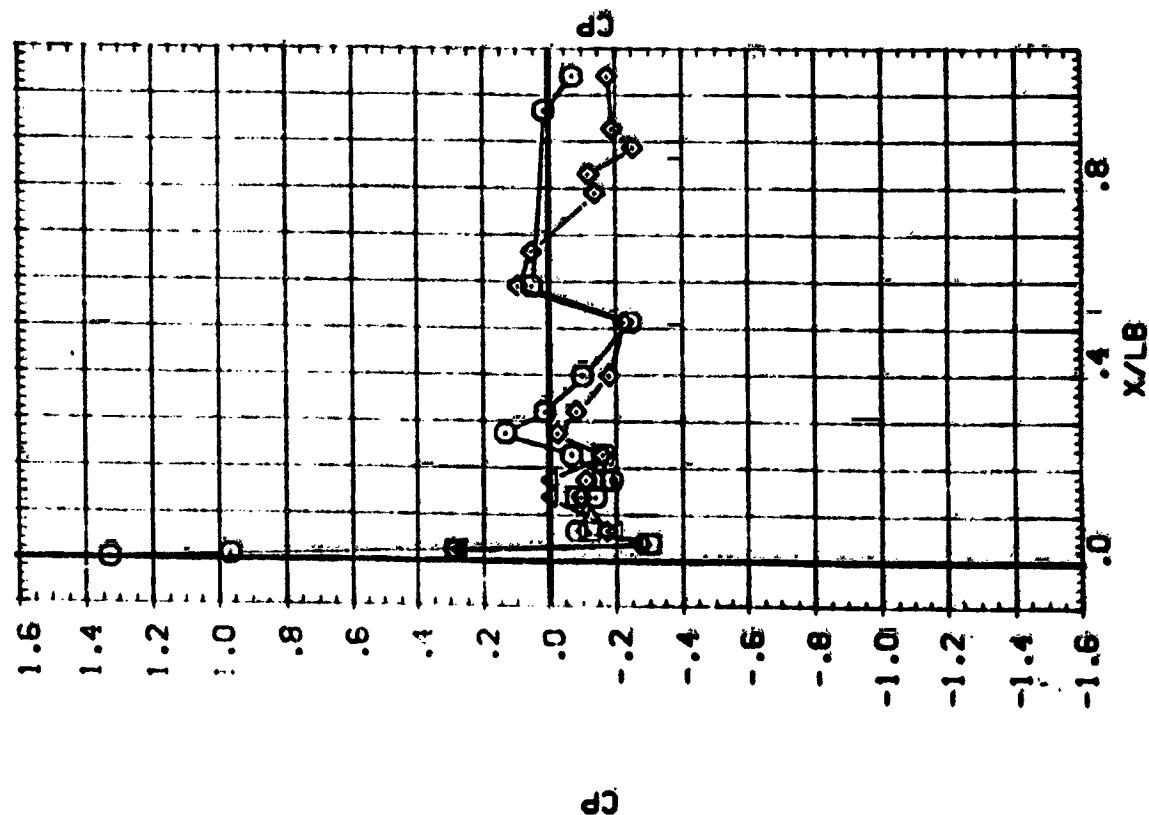
.000
20.000
40.000
55.000

4.110
8.200

1.251

ALPHA
RUDER
RUDER

.000
-10.000
1.000
.500
1.000
EVEN



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES



AMES 11-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (RBM925)

SYMBOL

○
□
◇

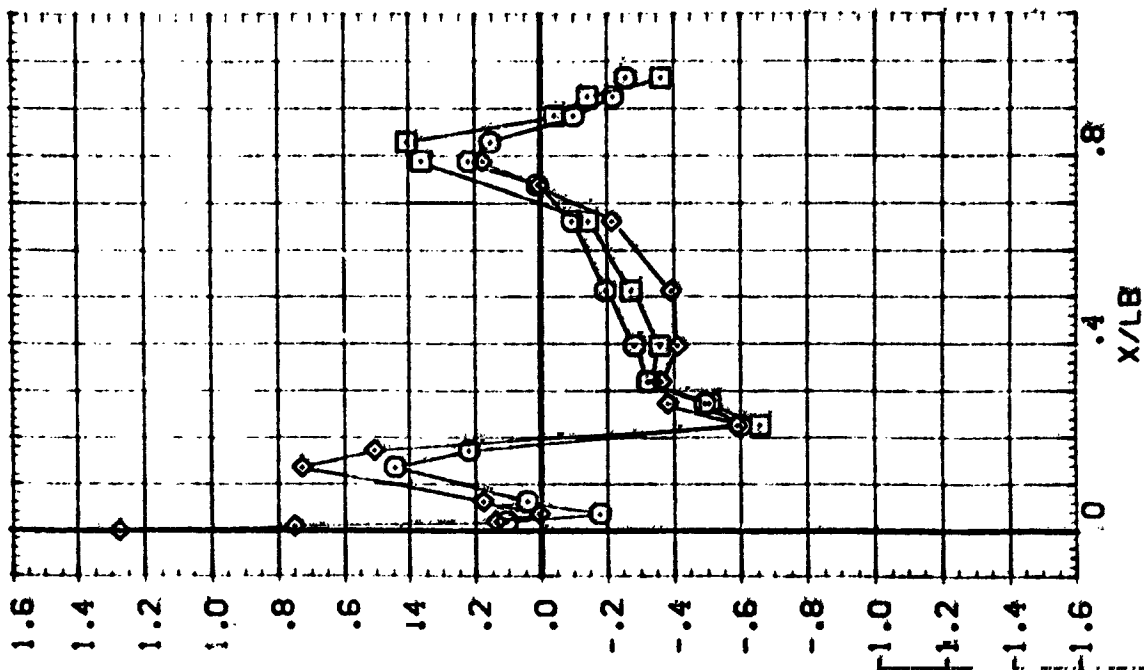
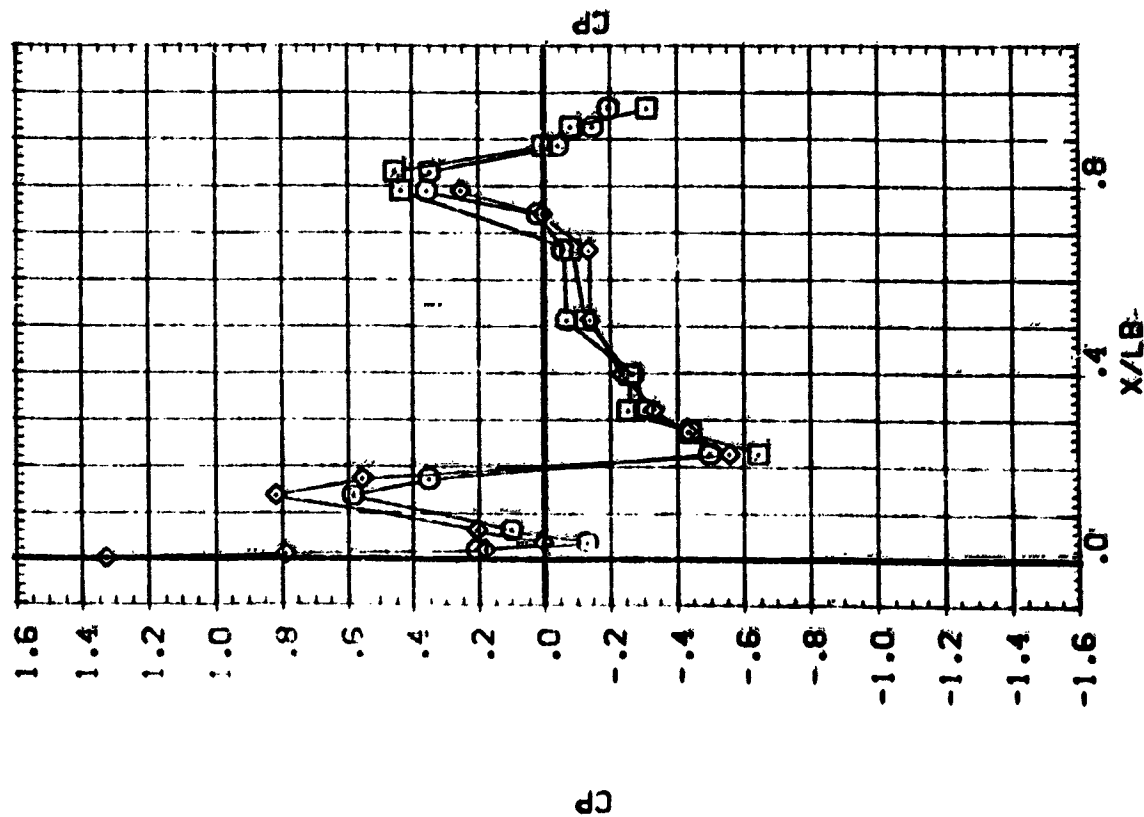
PMI 150.000
165.000
180.000

BETA 4.110
8.200

MACH 1.251

PARAMETRIC VALUES

ALPHA* .000 ORBINC .500
RUDER -10.000 ELEVON .000
RUDLR .000

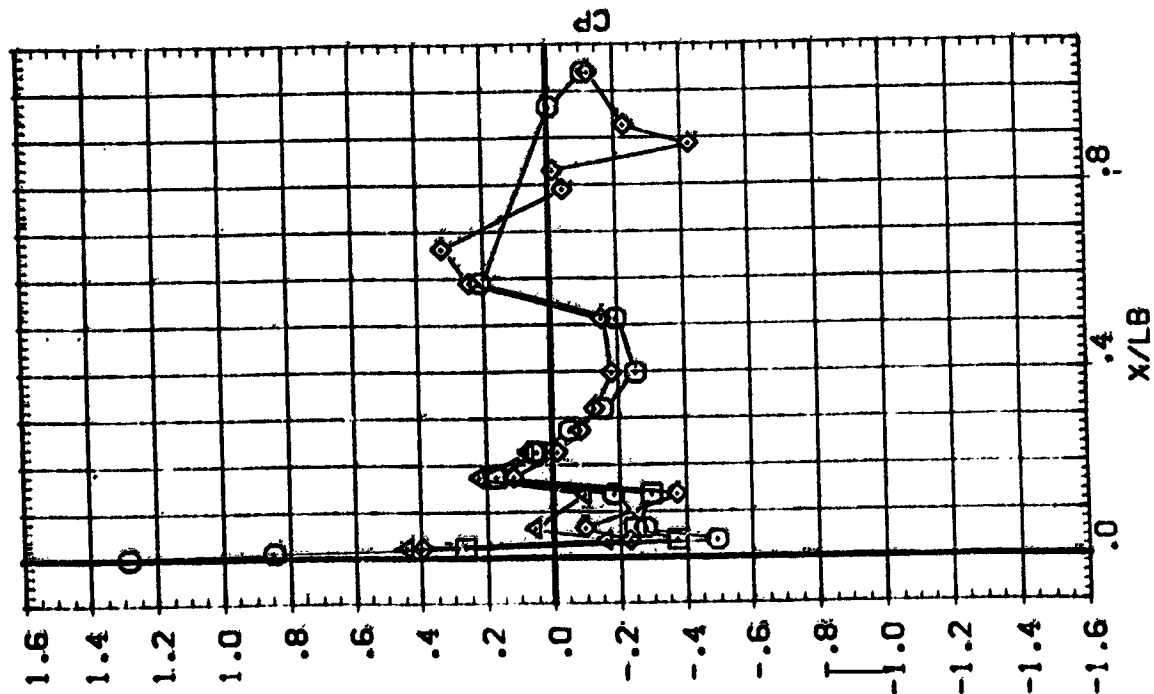
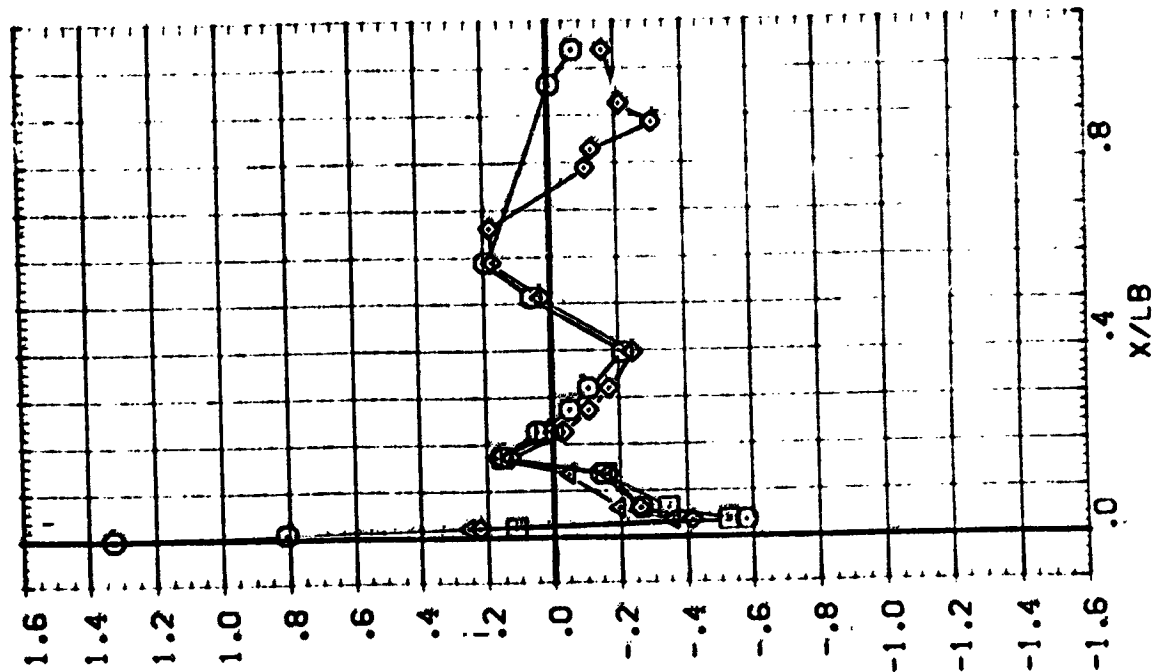


LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 11-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (RBMB34)

PARAMETRIC VALUES
 ALPHA 1 .000 ORBITAL .500
 RUDDER -15.000 ELEVON .000
 RUOFLR .000

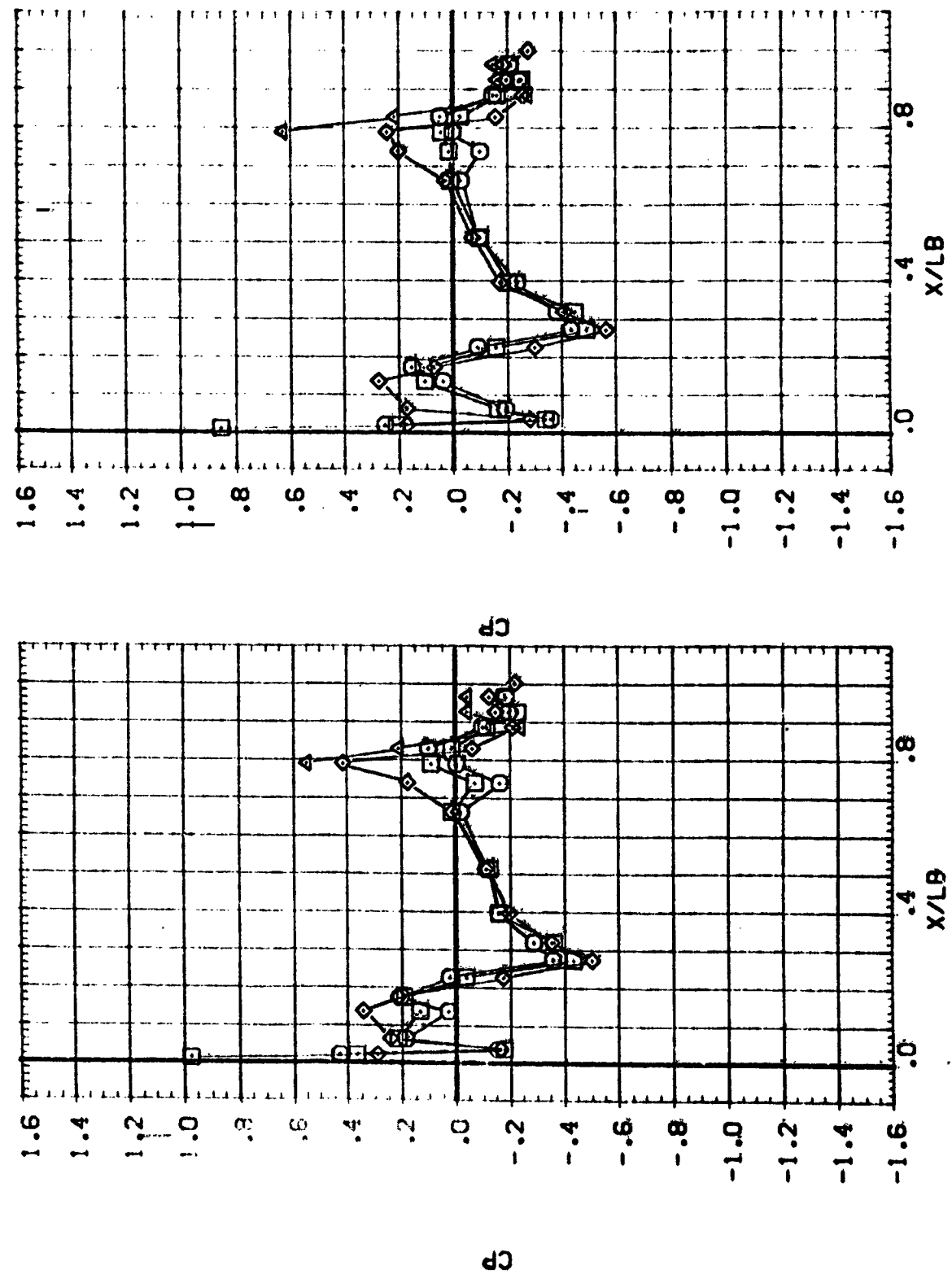
SYMBOL
 ○ □ △
 P41 .000 MACH 1.100
 BETAT -4.000 .020
 20.000
 40.000
 55.000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 11-707 :A9 C2A + S3 + T9 ORBITER FUSELAGE (RBM934)

SYMBOL	PHI	BETAT	MAC	ALPHA	PARAMETRIC VALUES
○	70.000	-4.090	1.100	0.000	.000
◇	90.000	.000	.000	-15.000	.000
△	120.000	.000	.000	0.000	.000
	135.000				

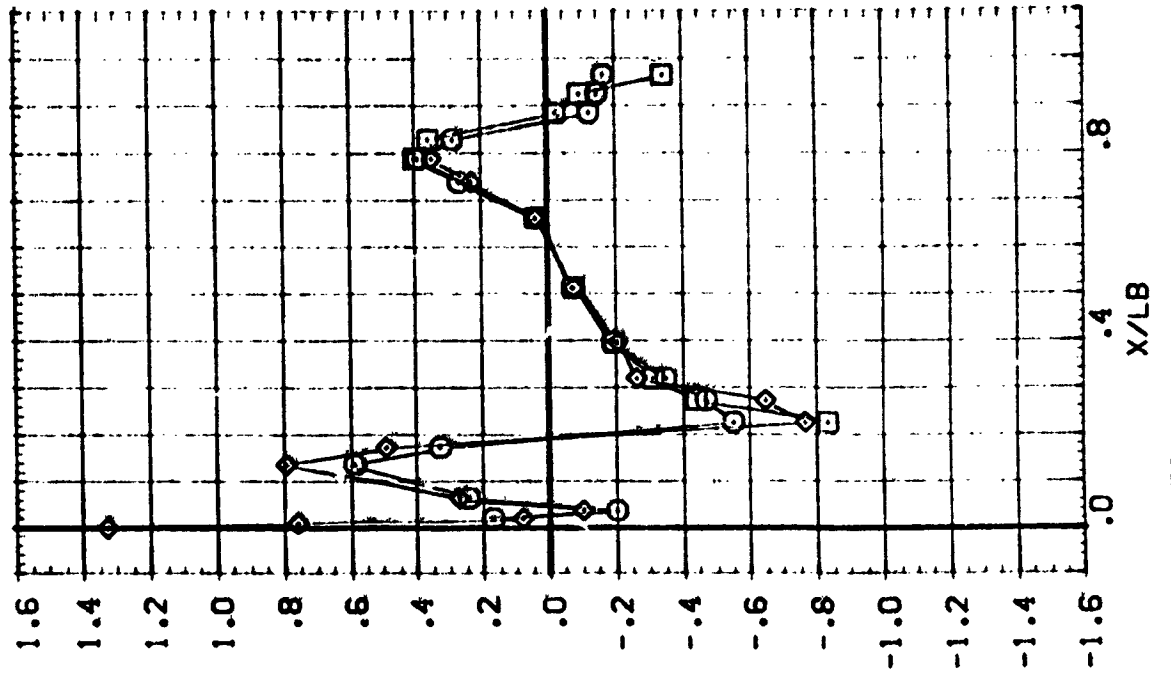
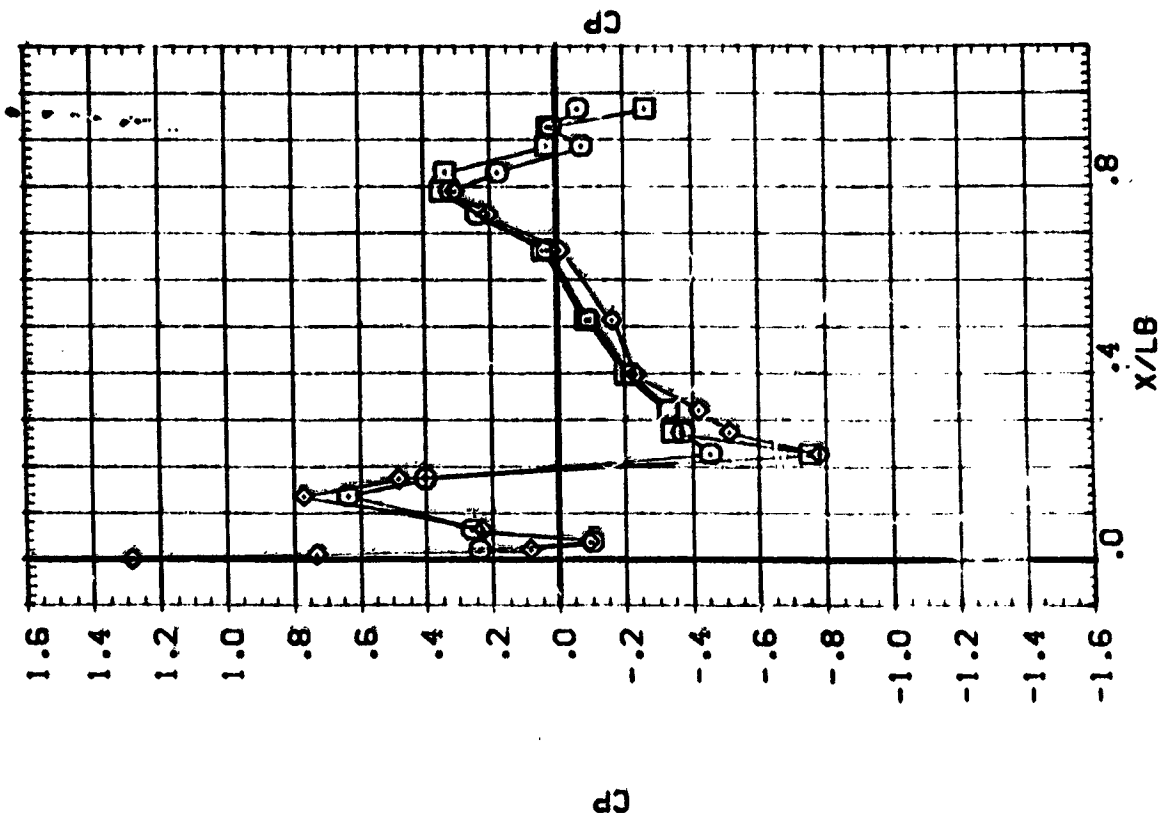


LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES



AMES 11-707 1A9 02A + S3 + 19 ORBITER FUSELAGE (RBMB34)

SYMBOL	PHI	BETAT	MACH	PARAMETRIC VALUES
◇	150.000	-4.090	1.100	ALPHAT .000 ORBINC .500
○	165.000	.020		RUDDER -15.000 ELEVON .000
□	180.000			RUDFLR .000



AMES 11-707 1A9 C2A + S3 + 19 ORBITER FUSELAGE (RBM834)

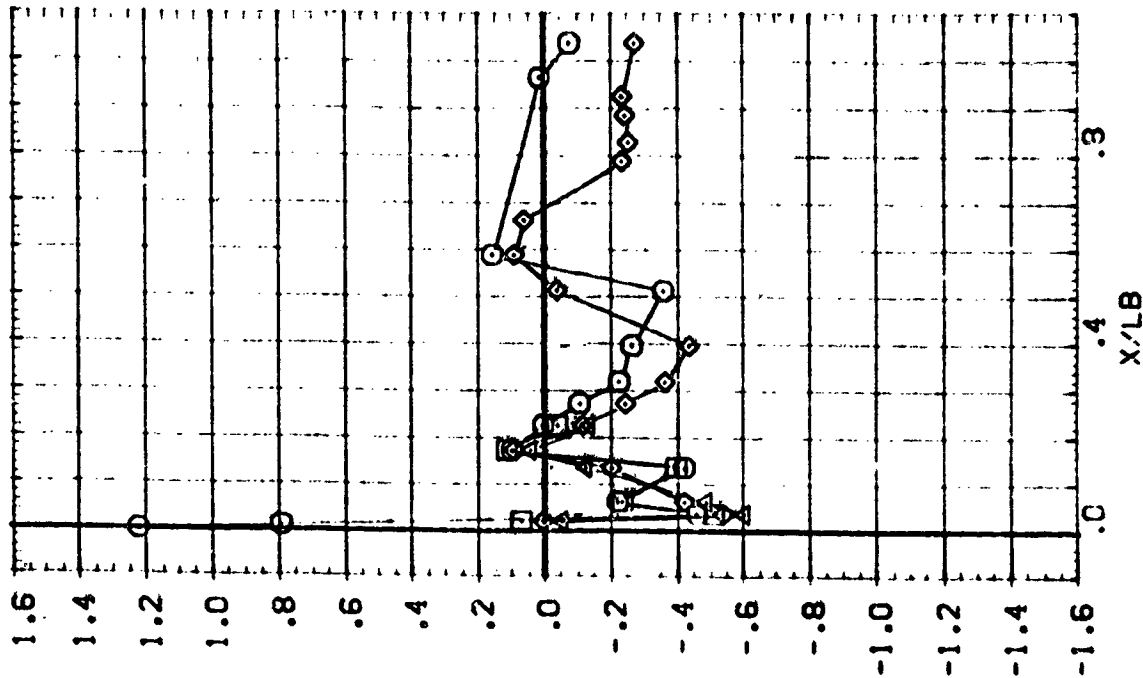
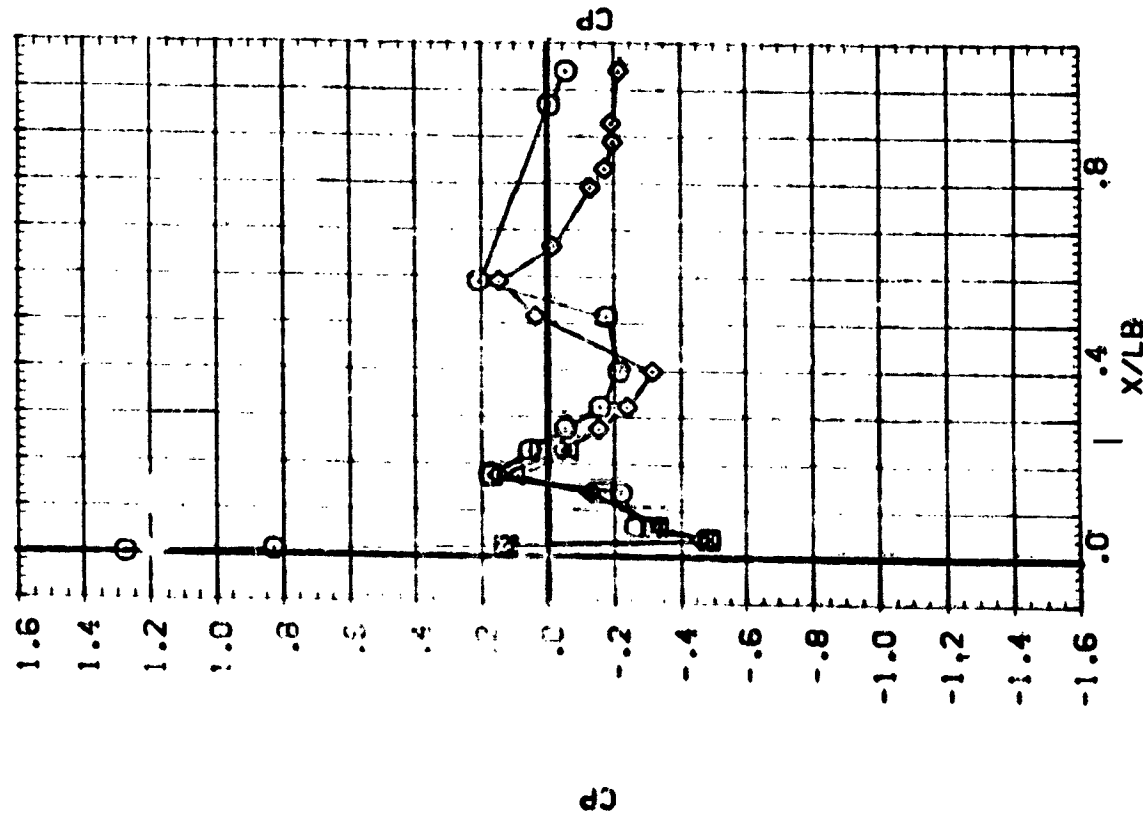
SYNCH
O
□
◇
△

PMI
.000
20.000
40.000
55.000

BETAT
4.130
8.250

MACH
1.100

PARAMETRIC VALUES
ALPHA? .000
RUDDER -15.000
RUDLER .000
ORBITING .500
ELEVON .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

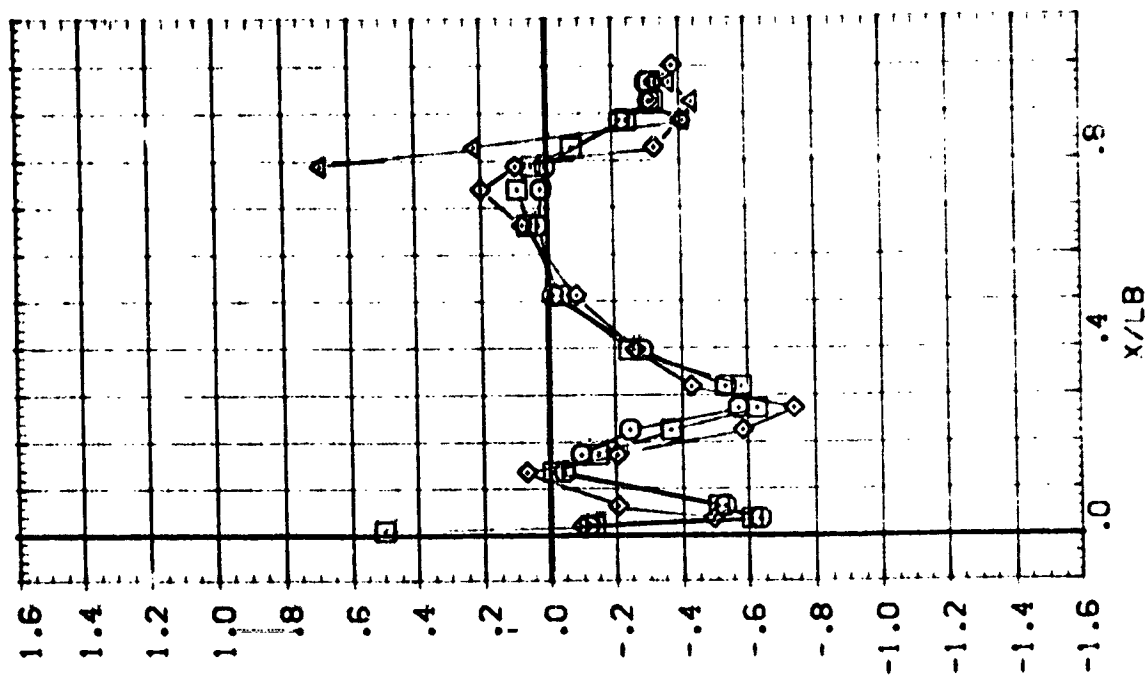
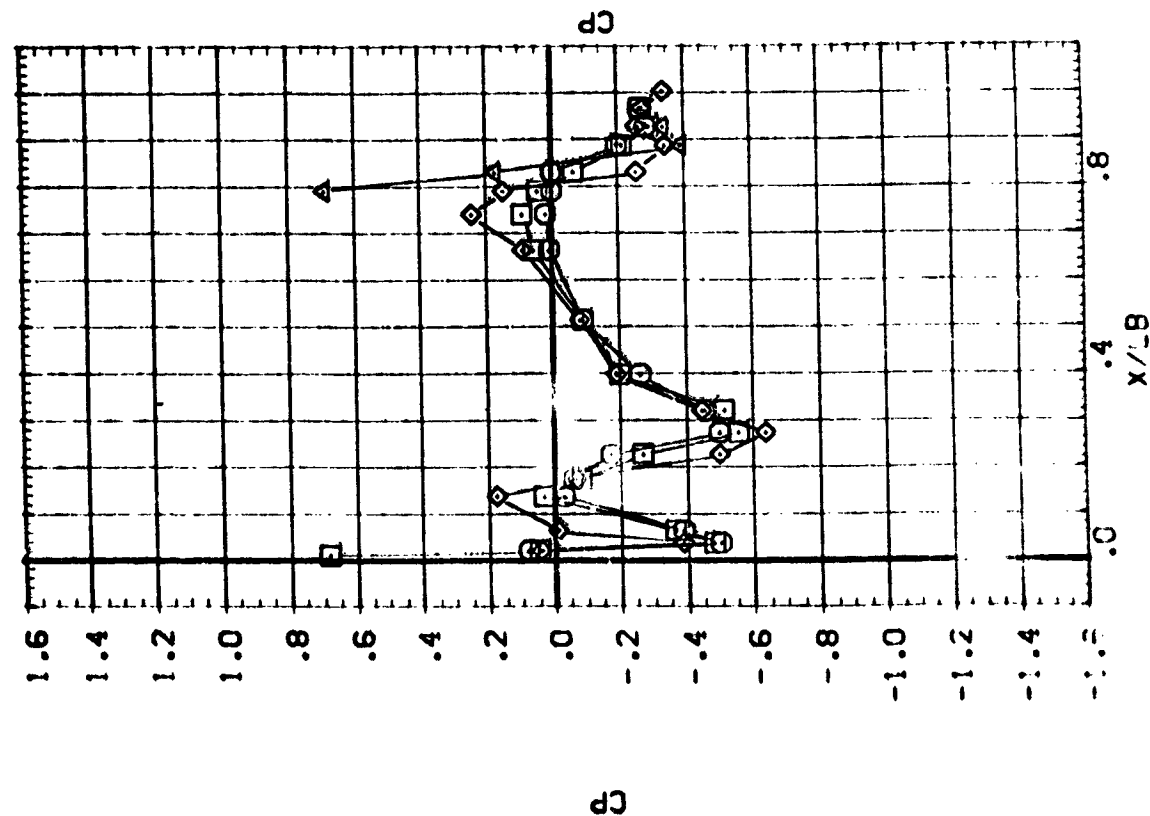
AMES 11-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (RBM934)

PWT 70.000
 90.000
 120.000
 135.000

BETA 4.130
 8.250

MACH 1.100

PARAMETRIC VALUES
 ALPHAT .000 ORBITING .500
 RUDDER -15.000 ELEVON .000
 RUFLR .000



AXIAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

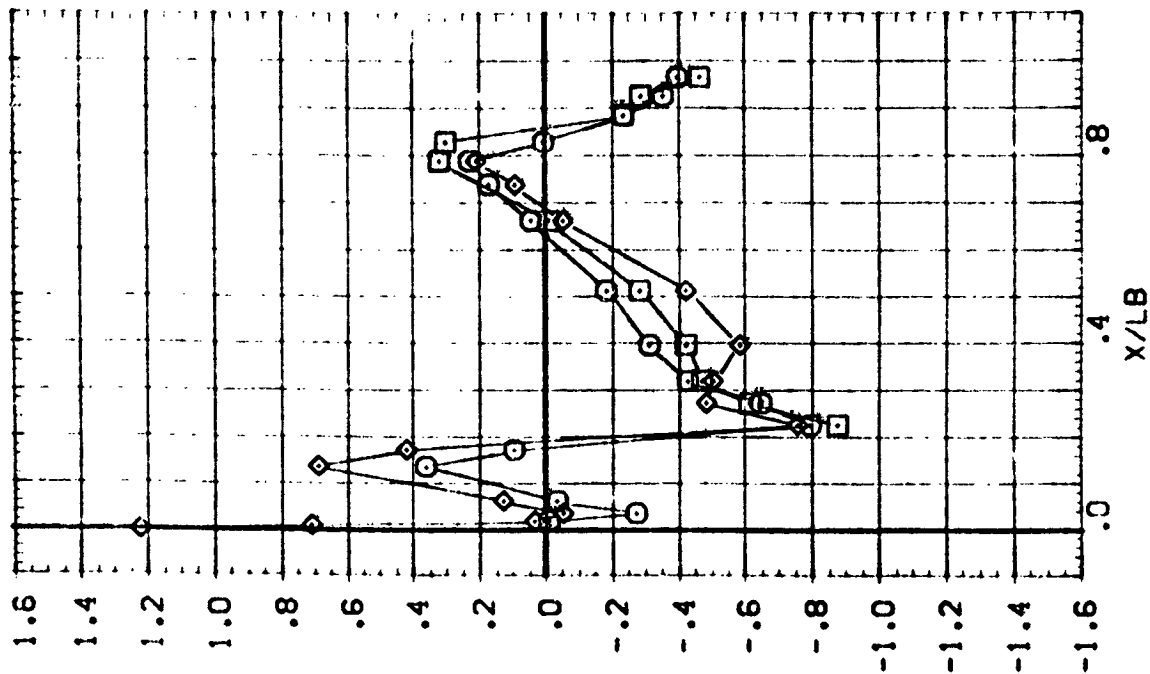
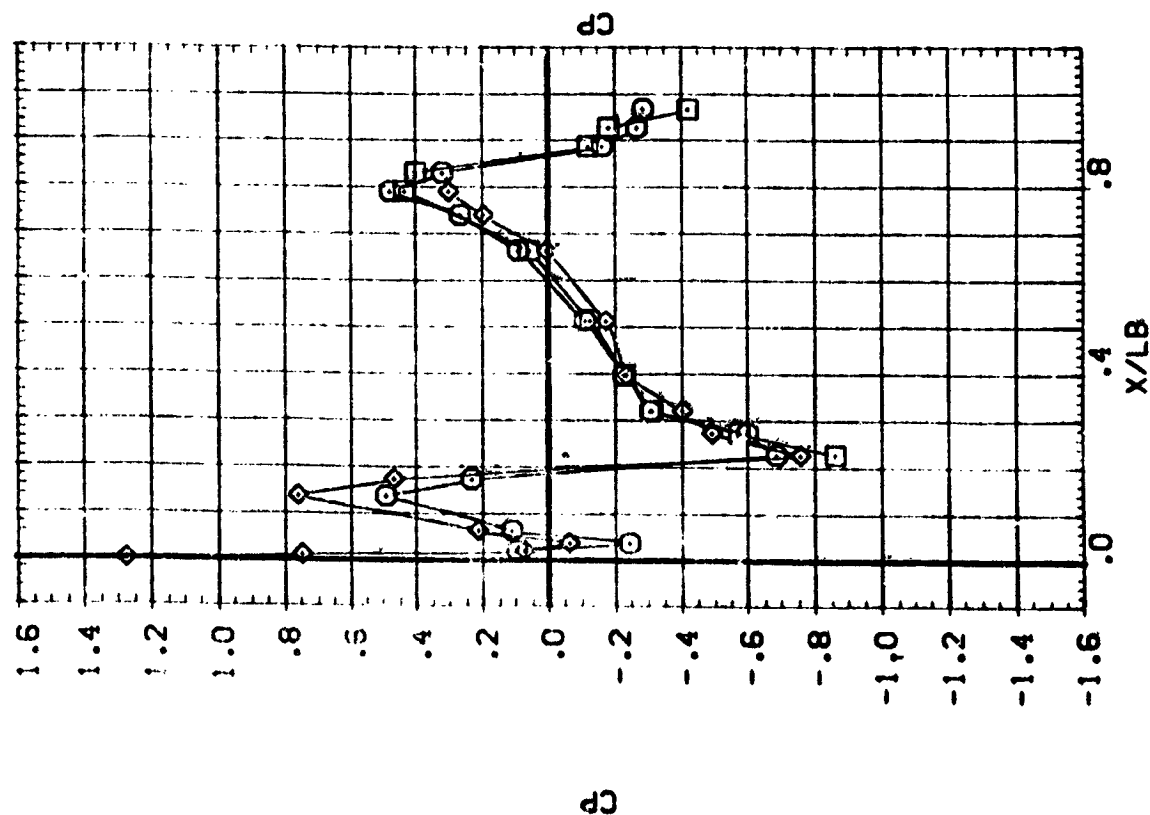
SYMBOL

PA1
150.000
165.000
180.000

BEAT
4.130
8.250

MACH
1.100

PARAMETER VALUES
ALPHA1 .000 0.000
RUDDER -15.000 0.000
RUDLR .000

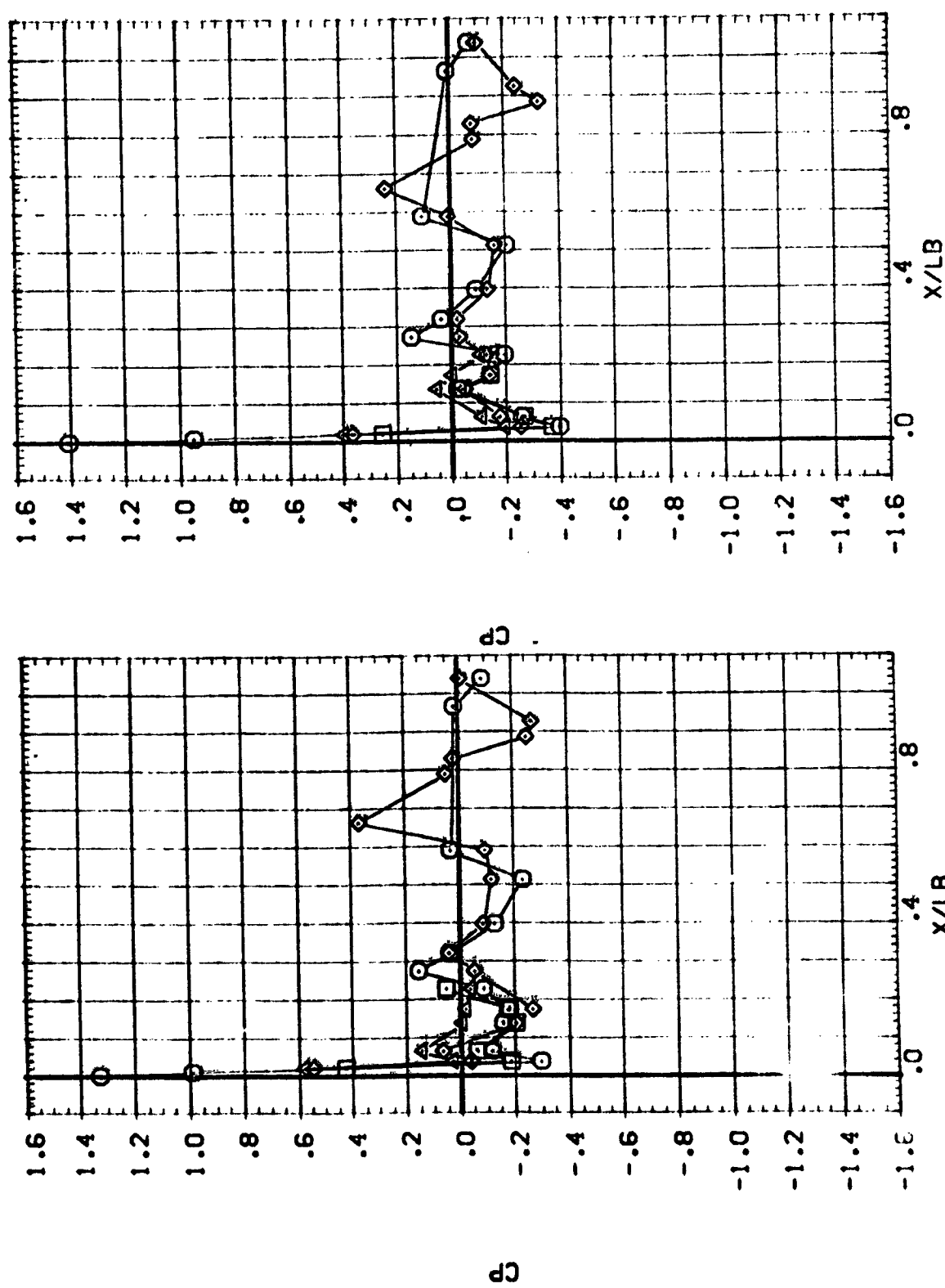


LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES



AMES 11-707 :A9 02A + S3 + T9 ORBITER FUSELAGE (RBMB34)

SYMBOL	PHI	BETAT	MACH	ALPHAT	ORBITING	ELEVON
○	.000	-4.070	1.250	RUDER	.000	.500
□	20.000	.020		RDFLR	-15.000	.000
◇	40.000				.000	
△	55.000					

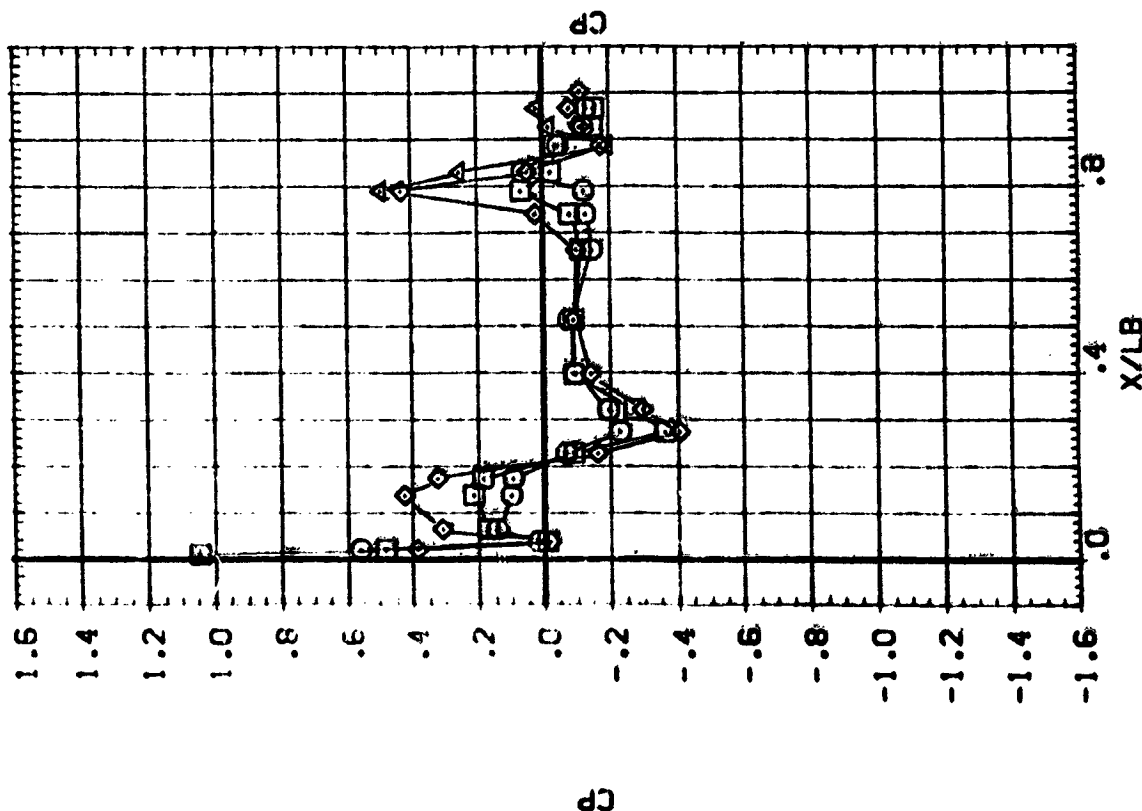
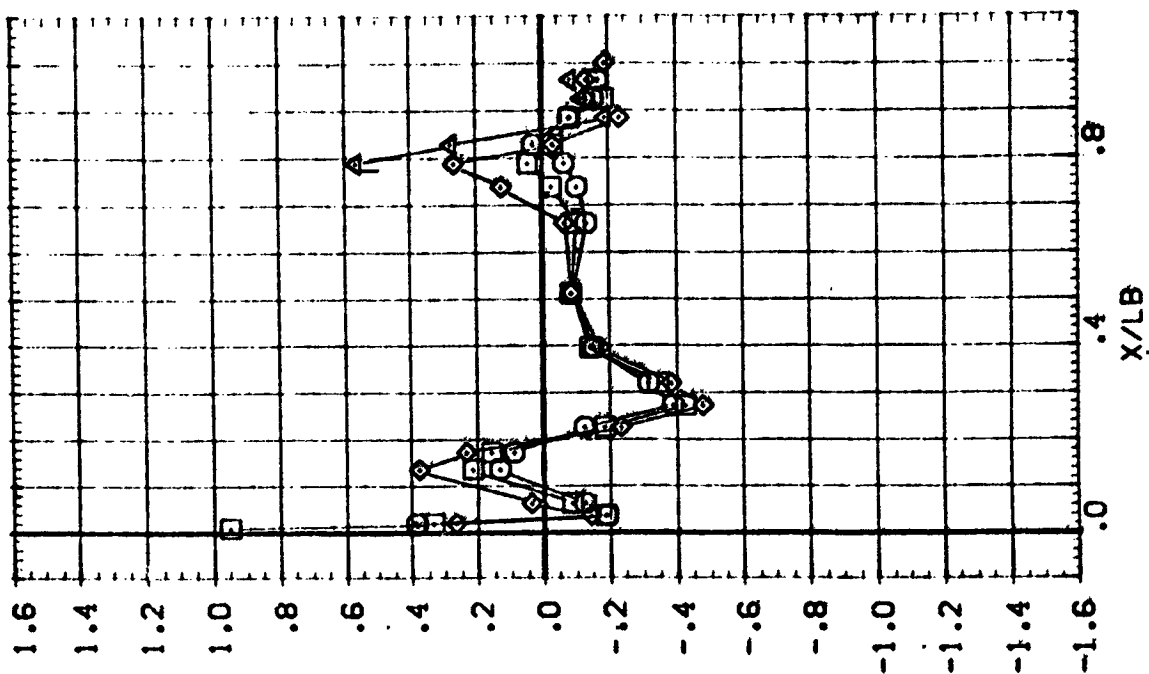


LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 11-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (RBMB34)

PARAMETRIC VALUES
 ALPHAT .000
 RUDDER -15.000
 R2FLR .000
 QP3INC .500
 ELEVEN .000

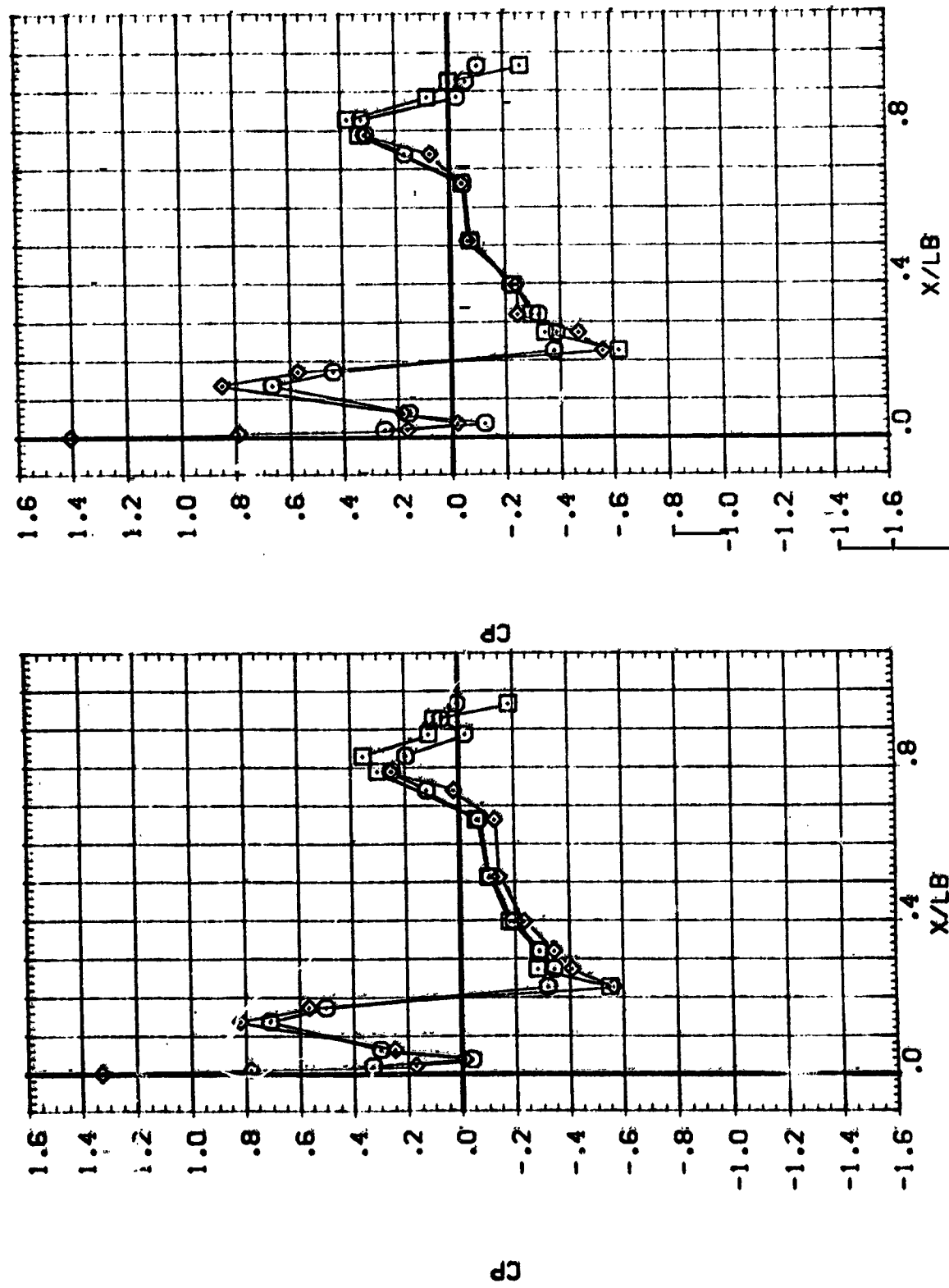
SYMBOL
 70.000
 90.000
 120.000
 135.000
 BETA° -4.370
 MACH 1.250
 .020



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 11-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (RBMB34)

SYMBOL:
 PH: 150.000
 165.000
 180.000
 BETAS: -4.070
 MACH: 1.250
 PARAMETRIC VALUES:
 ALPHAT: .000
 RUDDER: -15.000
 RUDELR: .000
 DRBINC: .500
 ELEV: .000



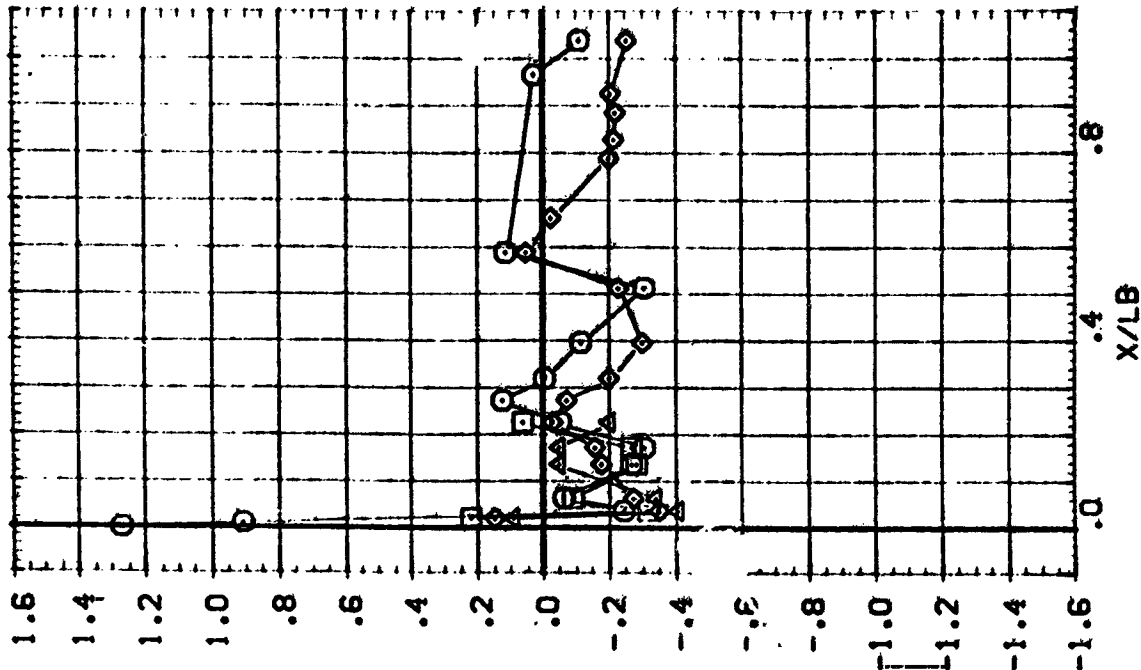
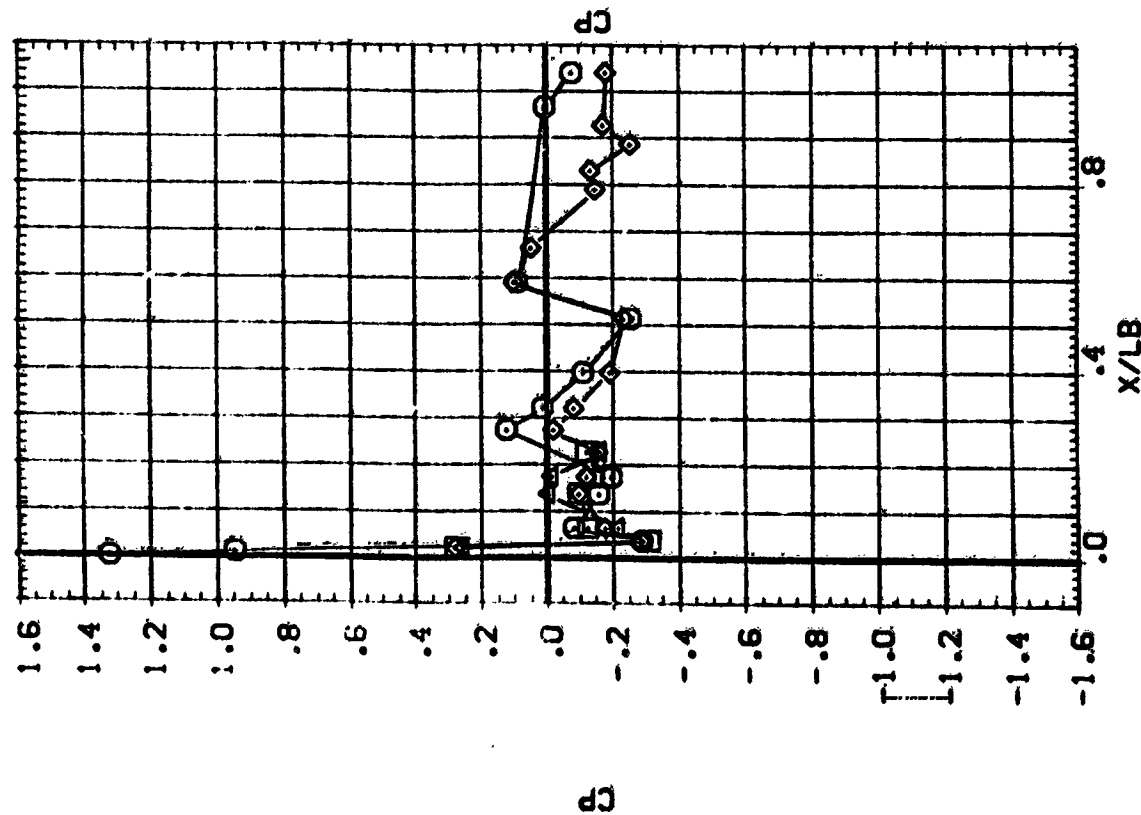
LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 11-707 1A9 02A + S3 + 19 ORBITER FUSELAGE (PBMB34)

SYMBOL
O
E
I
D
A

PAI BETAT MACH
.000 4.110 1.245
20.000 8.200
45.000
55.000

PARAMETRIC VALUES
ALPHAT .000 DB/INC .500
RLOOR -15.000 ELE VCN .000
RDOFLR .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 11-707 1A9 02A + S3 + T9 ORBITER FUSELAGE (RBMB34)

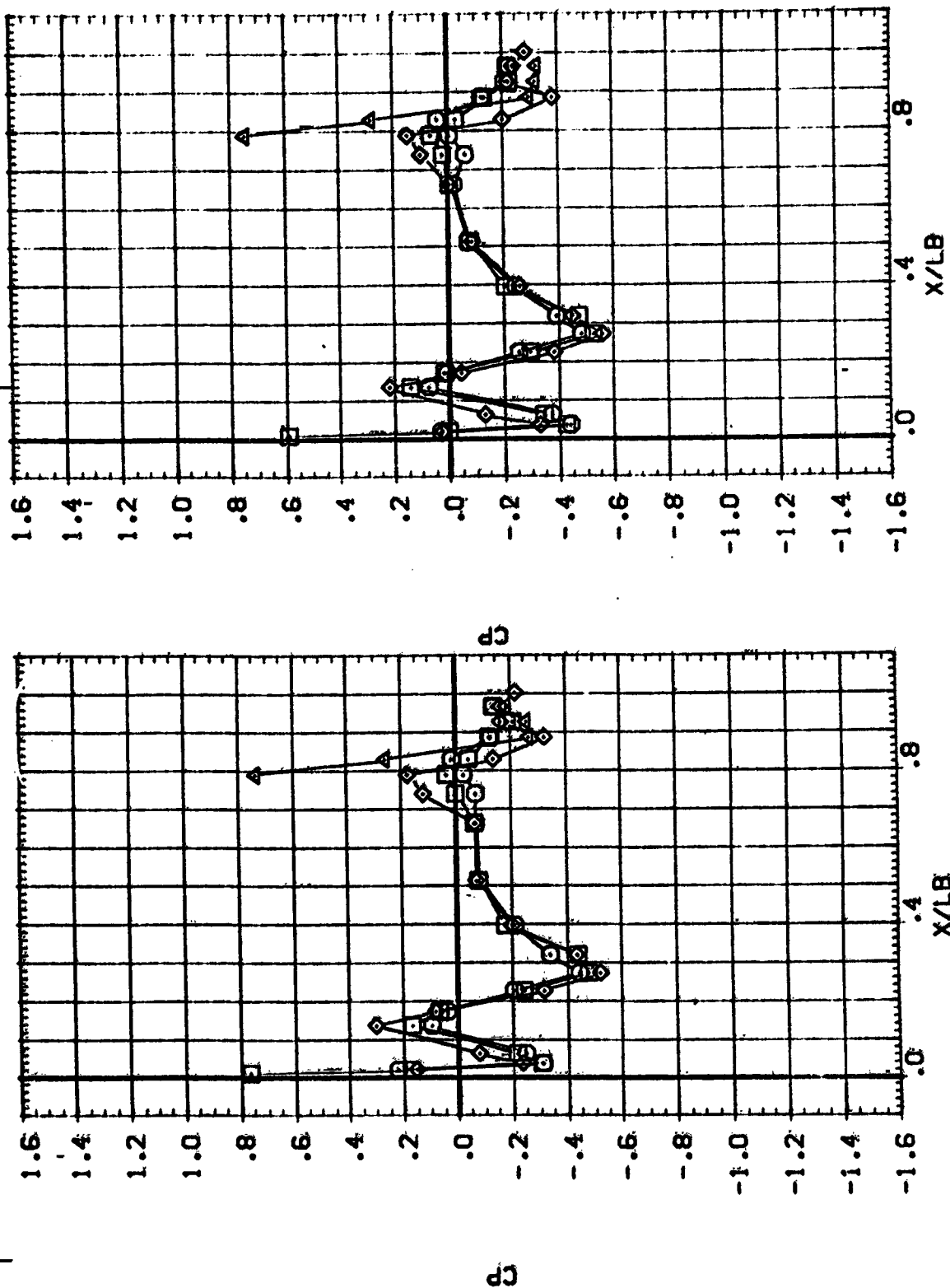
SYMBOL
 □
 ◇
 △

PHI
 70.000
 90.000
 120.000
 135.000

BETAT
 4.110
 8.200

MACH
 1.245

PARAMETRIC VALUES
 ALPHAT .000 ORBINC .500
 RUDDER -15.000 ELEVON .000
 RUDDL R .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES



AMES 11-707 1A9 02A + S3 + 19 ORBITER FUSELAGE (RBM334)

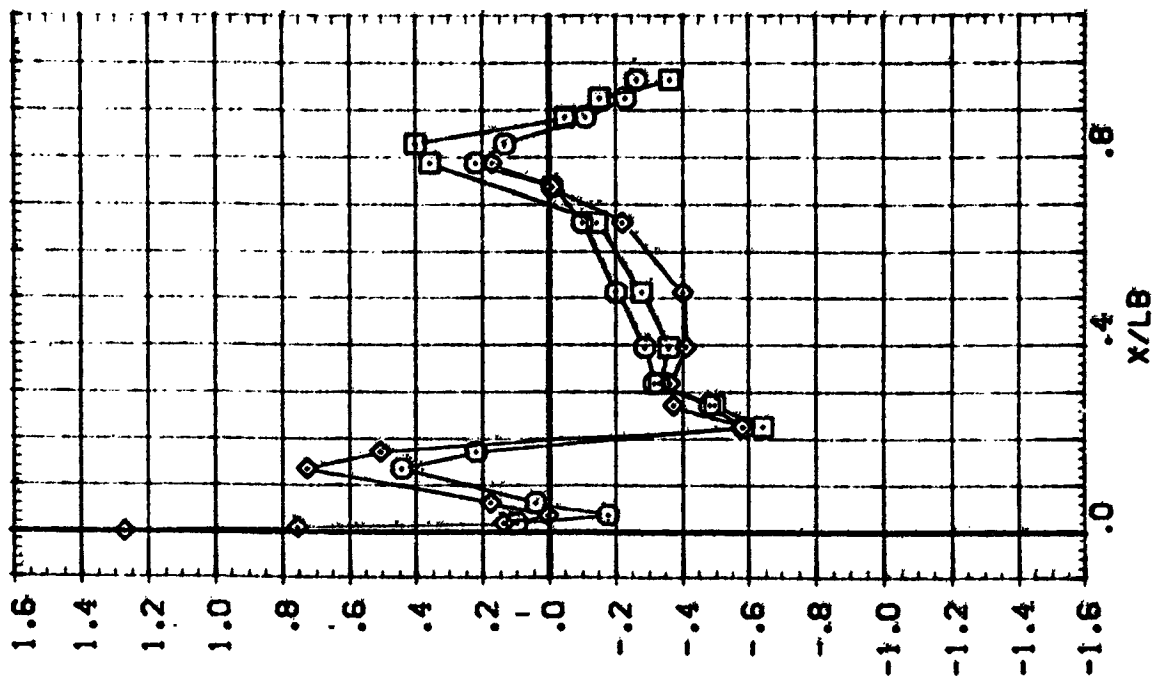
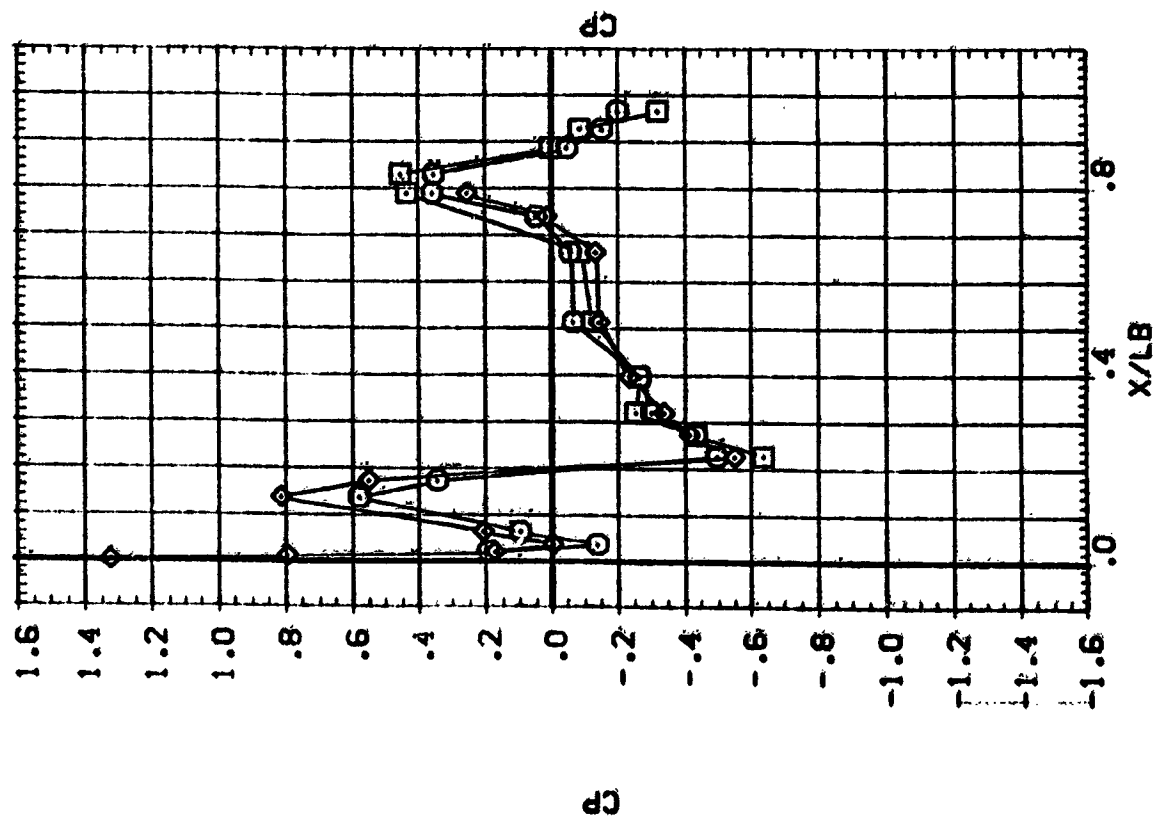
SYSC-
O
O
O

PHI 150.000
165.000
180.000

BETAT 4.110
8.200

MACH 1.245

PARAMETRIC VALUES
ALPHAT .000 ORBITALC .500
RUDDER -15.000 ELEVON .000
RUDDER .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES



AMES 11-707 1A9 02A + S3 + T9 EXTERNAL TANK

(RBMTQ1)

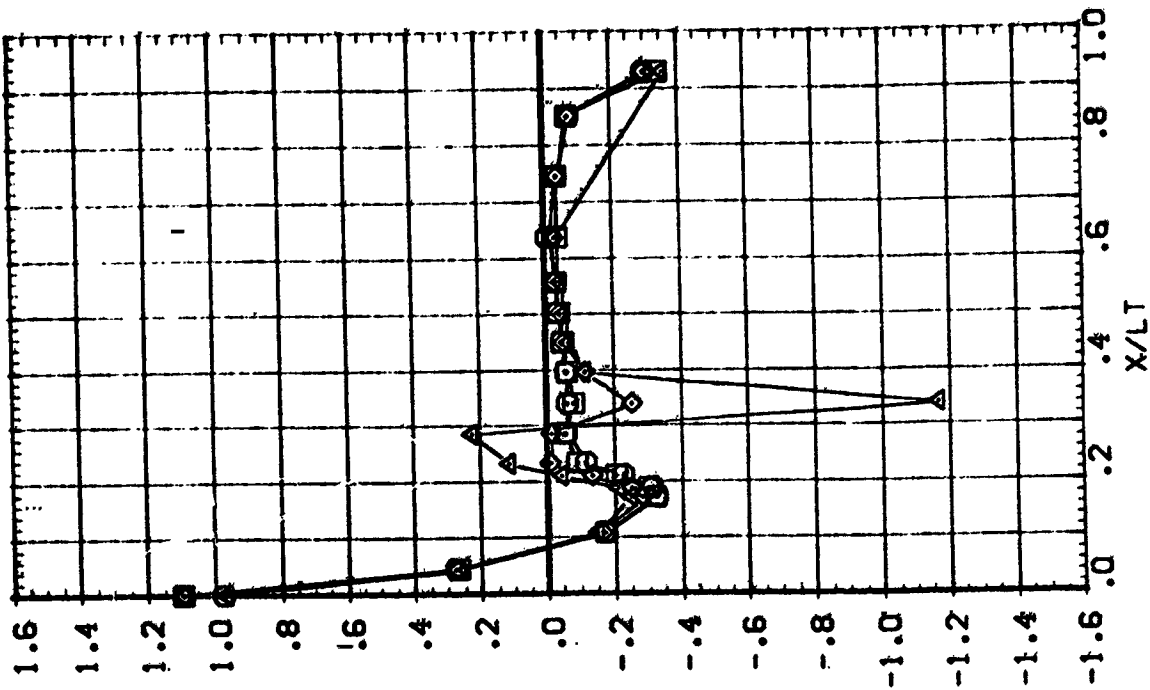
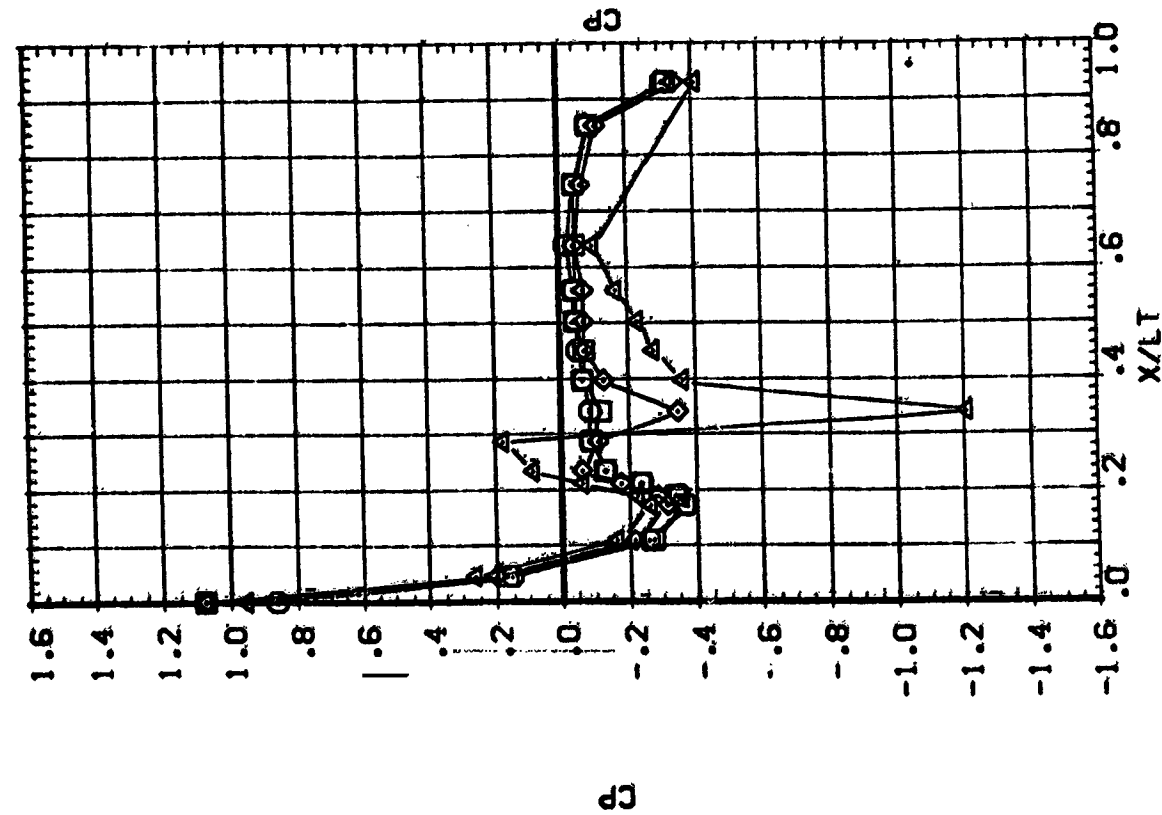
SYMBOL
□
◇
△

PHI
.000
30.000
60.000
90.000

ALPHA
-4.100
-.050

MACH
.597

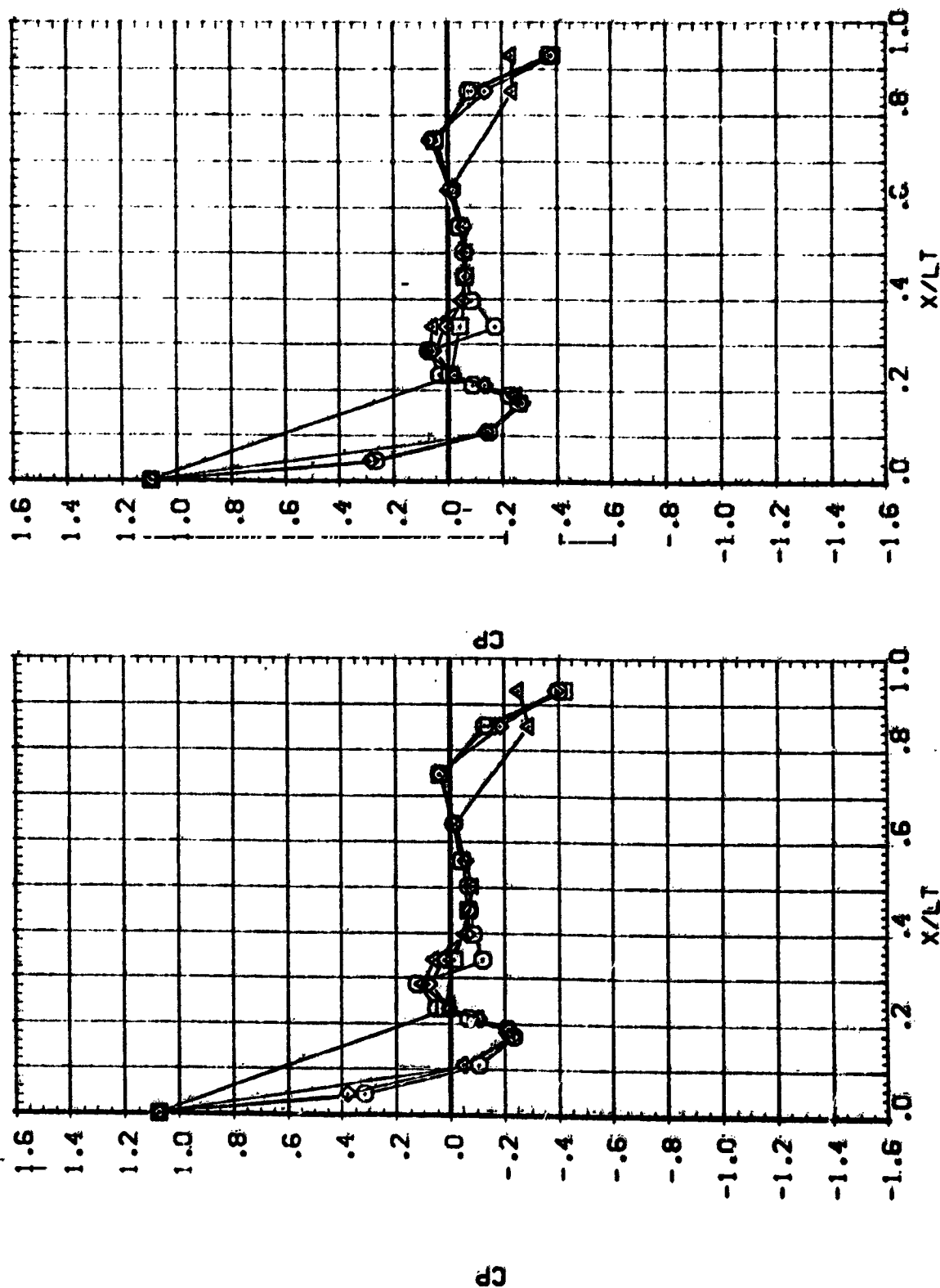
PARAMETRIC VALUES
BETAT
RLOOR
RLOOR
ELEVON
ELEVON
ELEVON



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 11-707 1A9 02A + S3 + T9 EXTERNAL TANK (RBMT01)

SYMBOL	PHI	ALPHAT	MACH	BETAT	CSBINC	ELEVON
○	20.000	-4.100	.597	.000	.000	.000
□	35.000	-.060		.000	.000	.000
◇	50.000			.000	.000	.000
△	65.000					



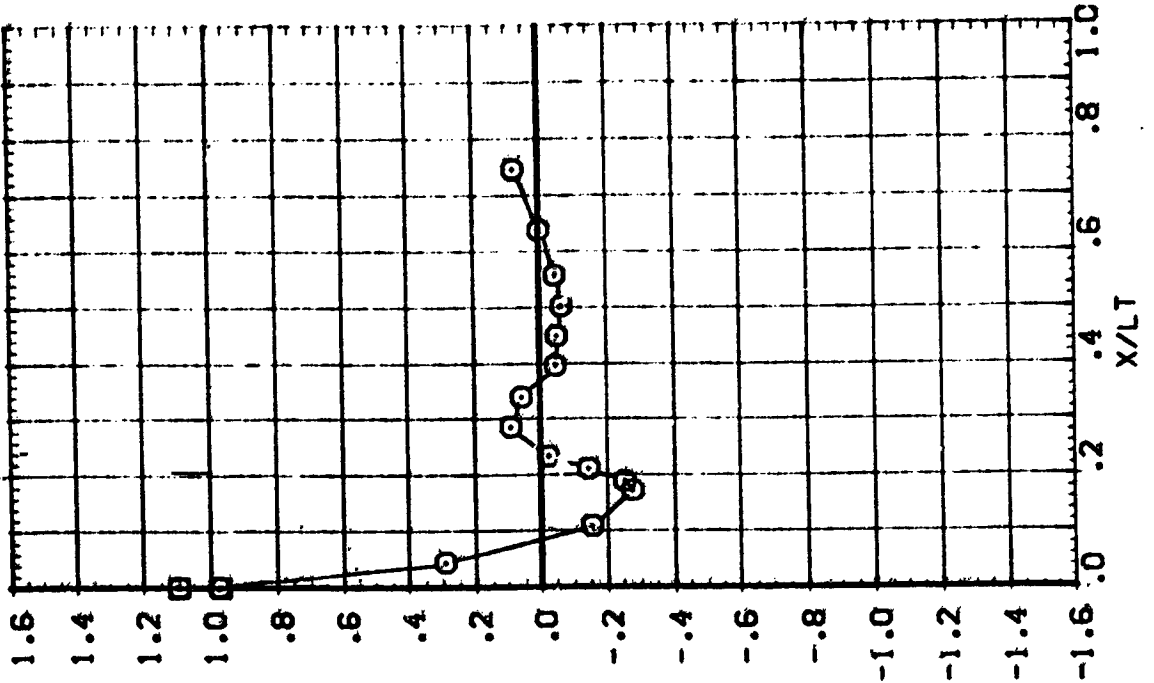
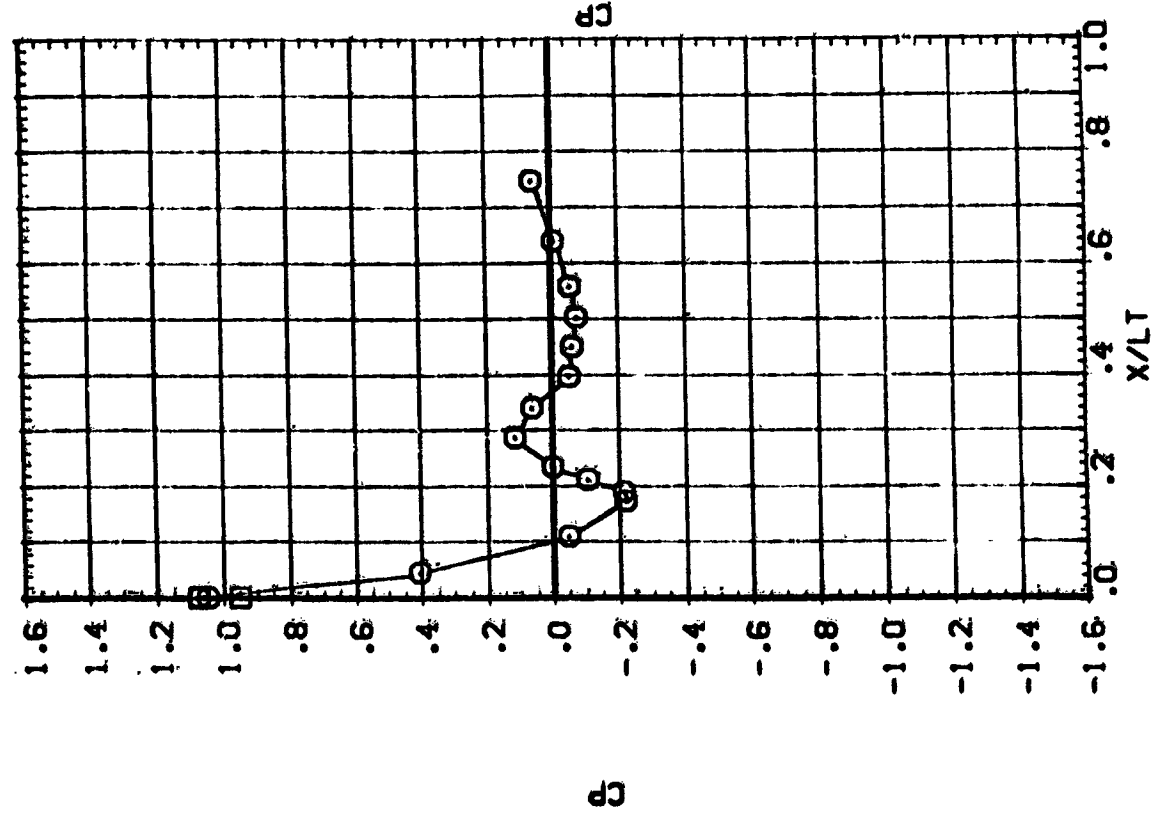
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES



AMES 11-707 1A9 02A + S3 + T9 EXTERNAL TANK (RBMT01)

SYMBOL: ☐ ☐ PH1: 180.000 270.000 ALPHAT: -4.100 MACH: .587

PARAMETRIC VALUES
BETAT: .000 CRIBINC: .500
RJOJER: .000 ELEVON: .000
RJOFLR: .000

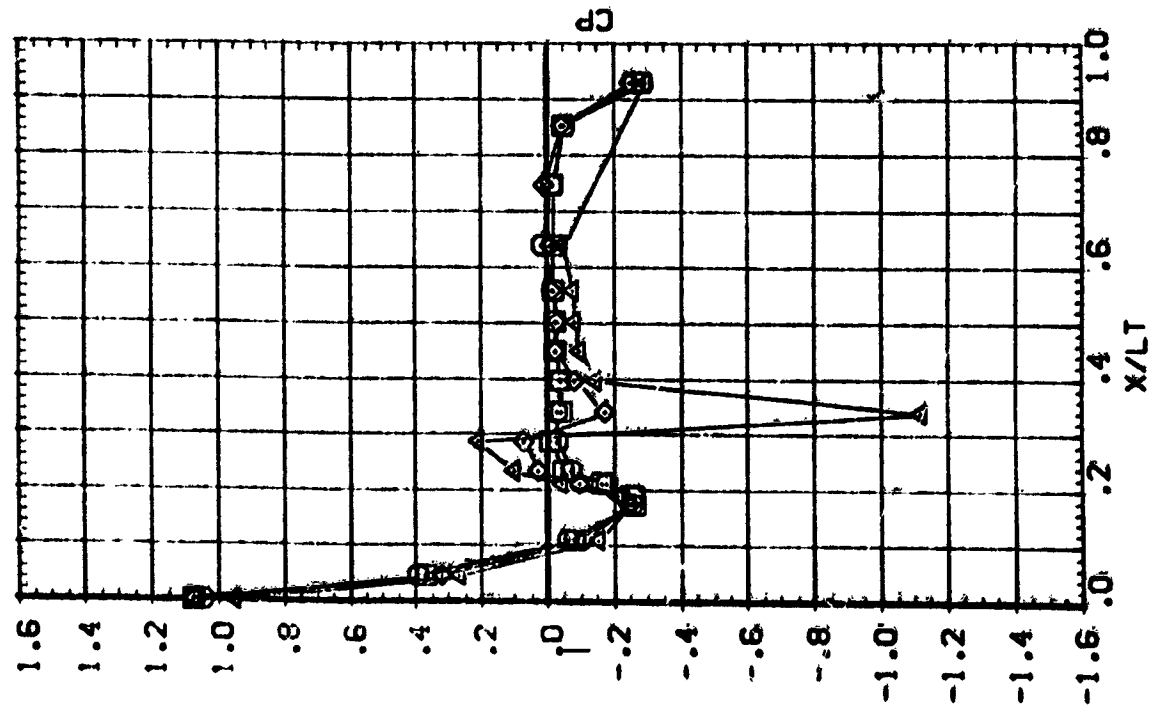
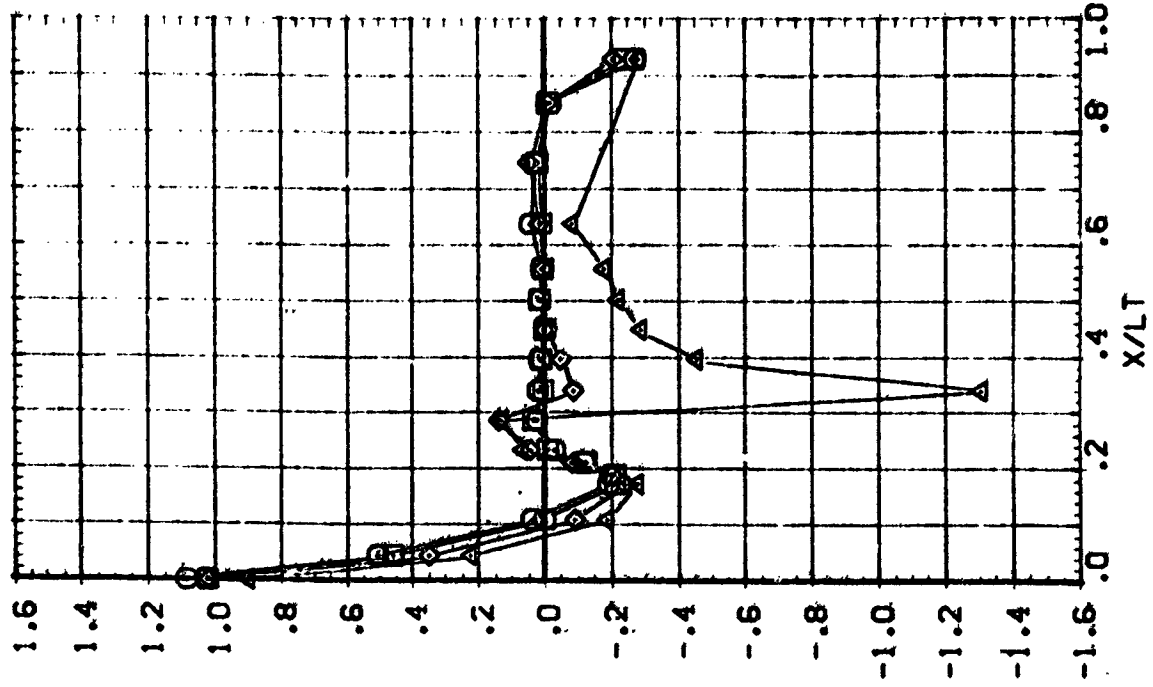


LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 11-707 1A9 02A + S3 + T9 EXTERNAL TANK (RBMT01)

PARAMETRIC VALUES
 BETAT .000 C99INC .500
 RLODR .000 ELEVON .000
 RLODR .000

SYMBOL PHI ALPHAT MACH
 .000 3.930 .597
 30.000 7.950
 60.000
 90.000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

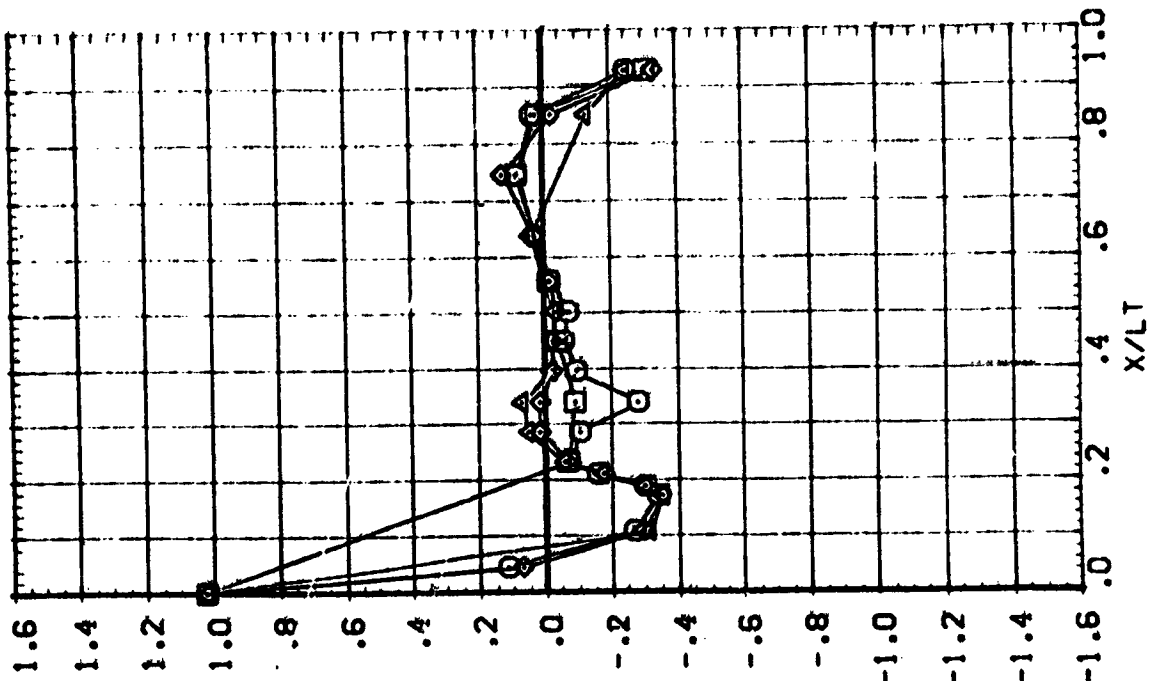
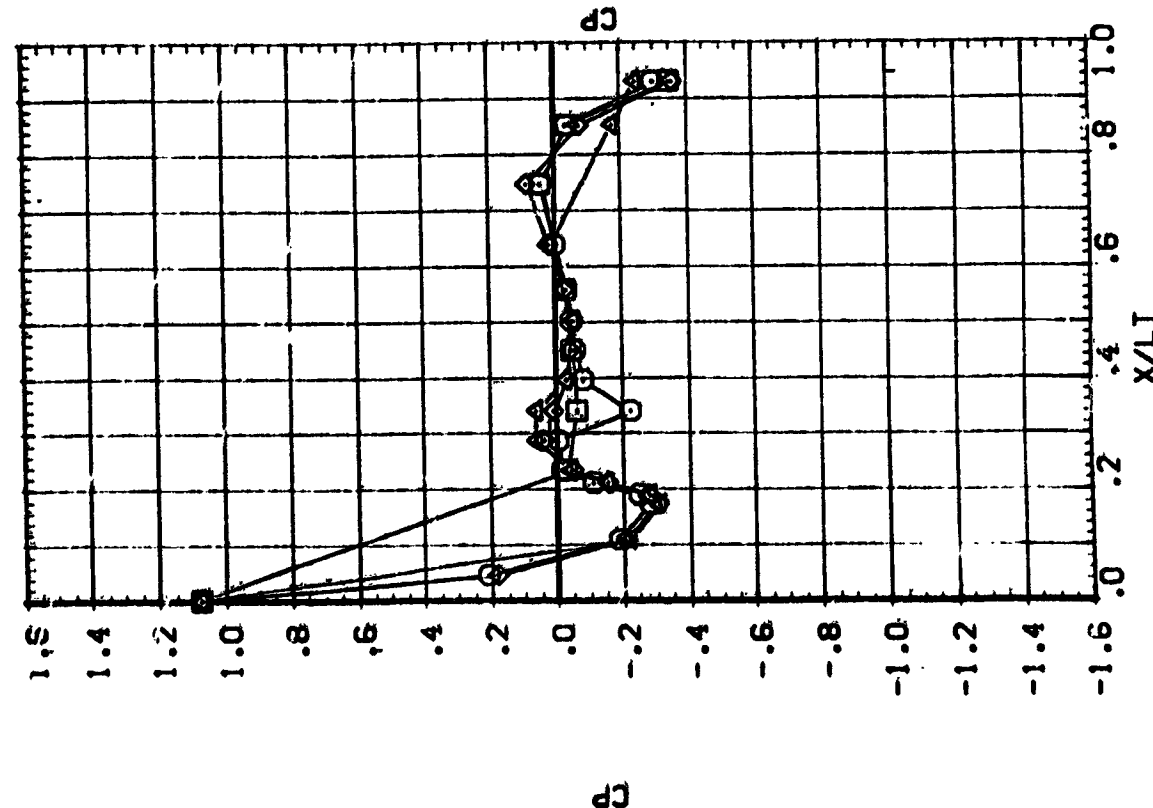


AMES 11-707 1A9 02A + S3 + T9 EXTERNAL TANK (RBMT01)

SYMBOL
 ○ □ ◇ △

PHI ALPHAT MACH
 120.000 3.930 .597
 135.000 7.950
 150.000
 165.000

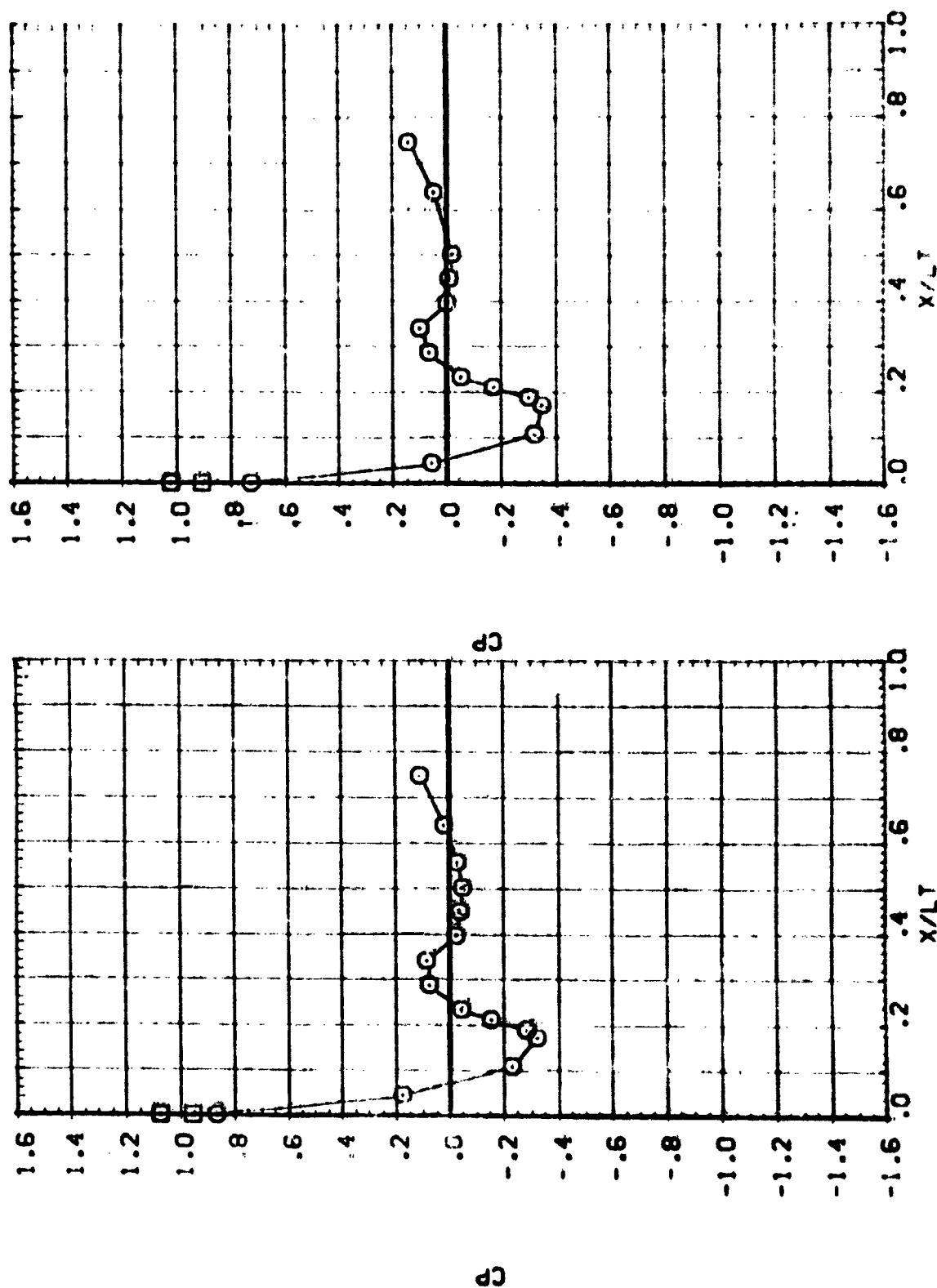
PARAMETRIC VALUES
 BETAT .000 ORBINC 1.500
 RUDDER .000 ELEVON .000
 RUFLR .000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

PARAMETER VALUES	
BEVAV	.000
BLUDDR	.000
BLUFLR	.000
	:500
	.000

Symbol	PH	ALPHA	MACH
(1)	180.000	3.930	.597
(2)	270.000	7.950	



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES



AMES 11-707 1A9 02A + S3 + T9 EXTERNAL TANK (P3M7C11)

SYMBOL
◇ ○ □ △

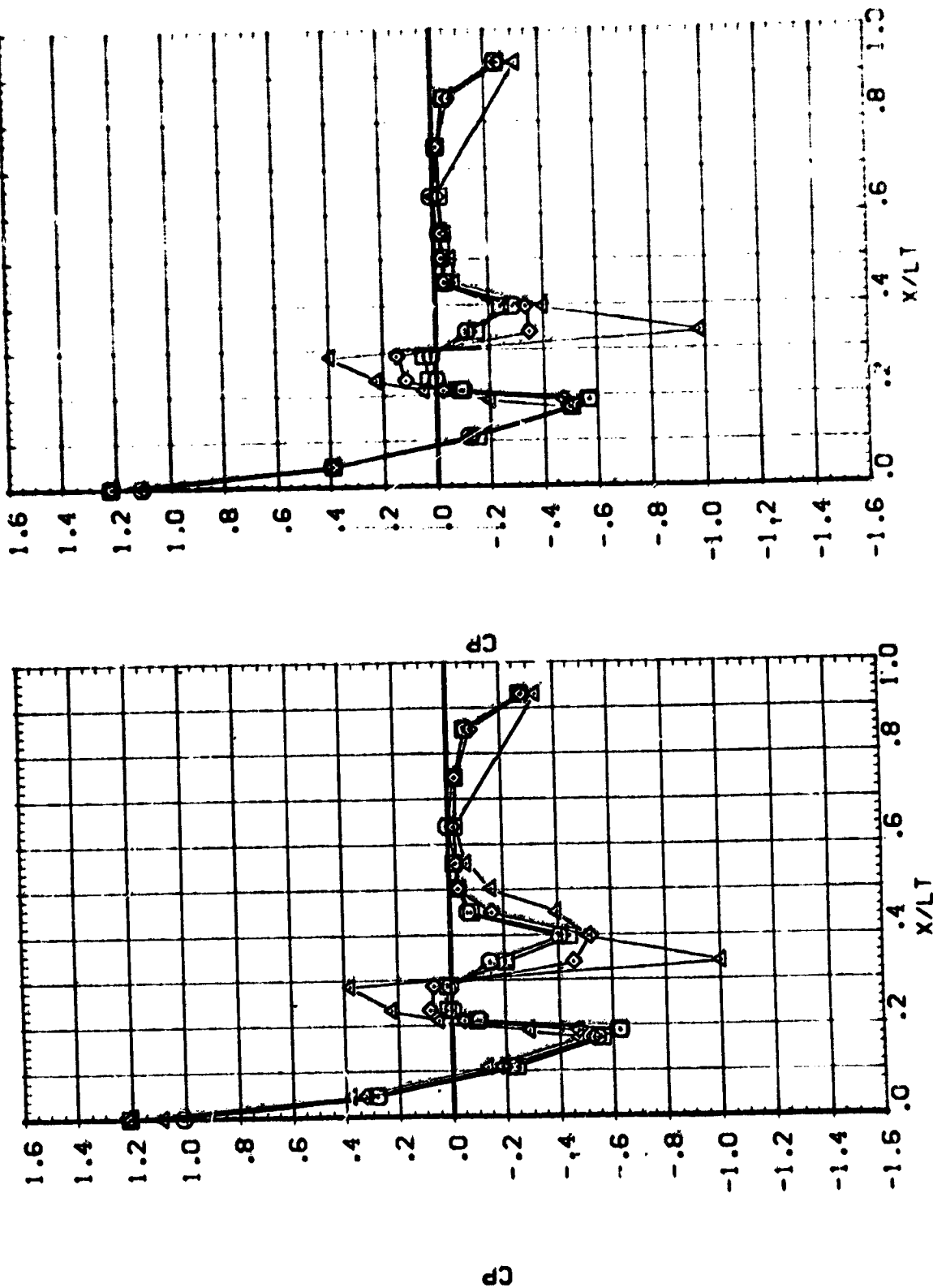
PM: .000
30.000
60.000
90.000

ALPHAT MACH
-4.000 .688
.030

PARAMETRIC VALUES

BETA
0.0000
0.0000

0.000
0.000
0.000

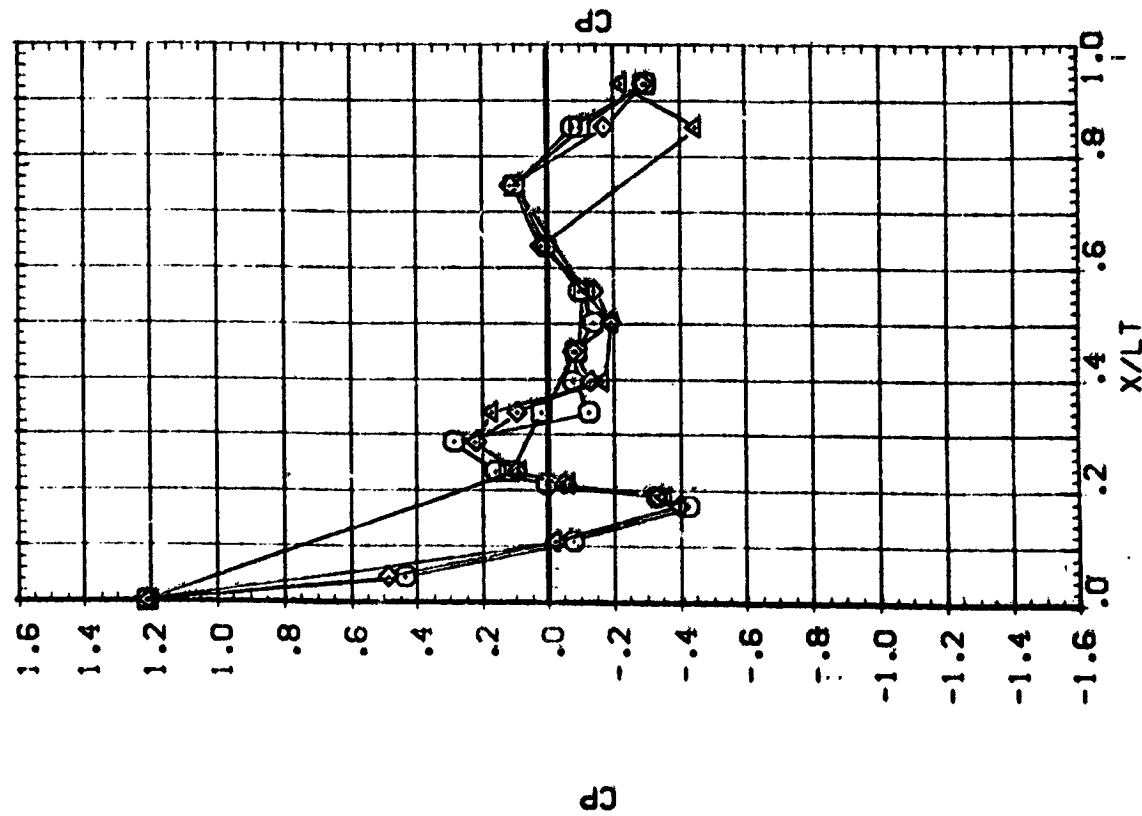
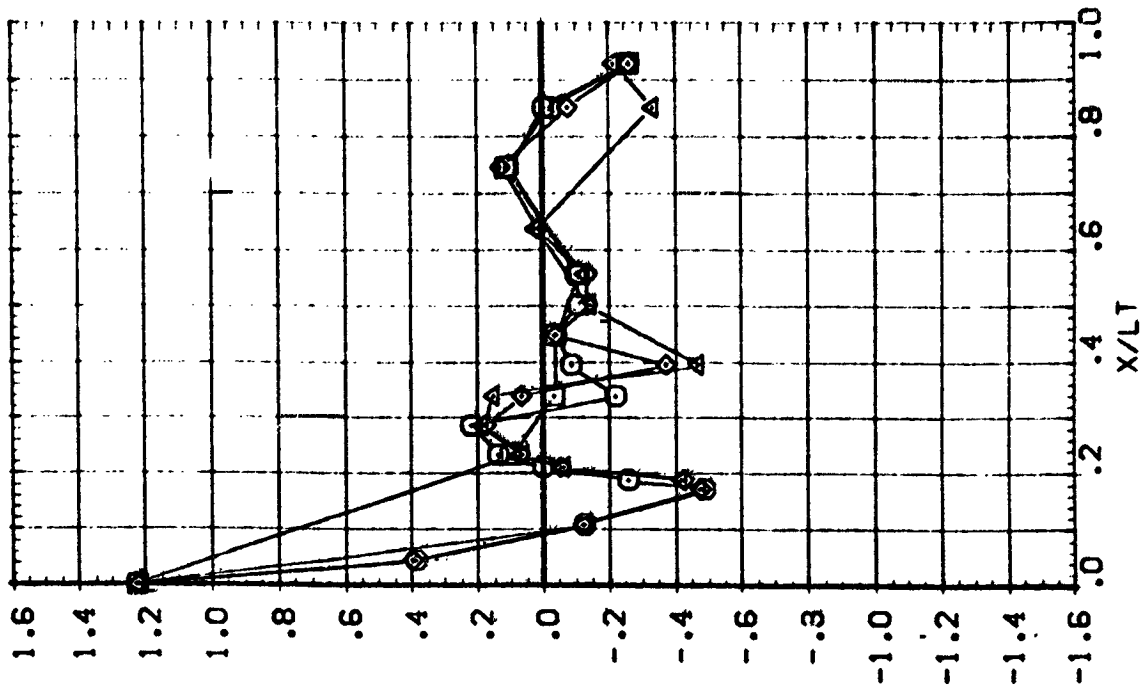


LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES :1-707 1A9 C2A + S3 + T9 EXTERNAL TANK (RBMT01)

PARAMETRIC VALUES
 BETAT .000 DBBINC .500
 RUDDER .000 ELEVEN .000
 RUFLR .000

SYMBOL
 0 1 2 3 4
 120.000 MACH .898
 35.000 ALPHAT -4.000
 50.000 .030
 65.000

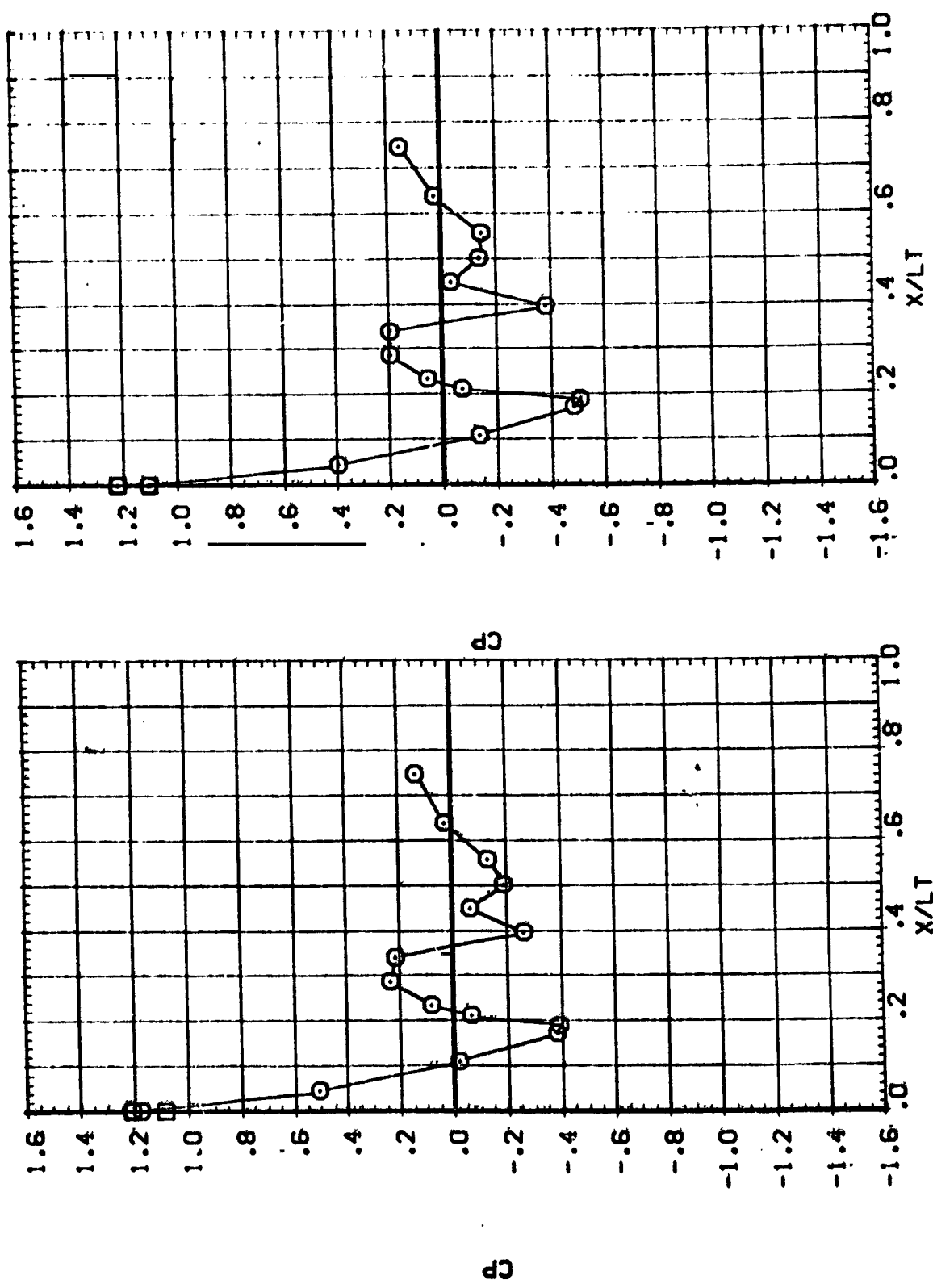


LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES



AMES 11-707 1A9 02A + S3 + T9 EXTERNAL TANK (RBMT01)

SYMBOL	PA	ALPHAT	MACH	BETAT	ORBITALC	ELEVYN
01	180.000	-4.000	.898	.000	.000	.000
	270.000	.030		.000		



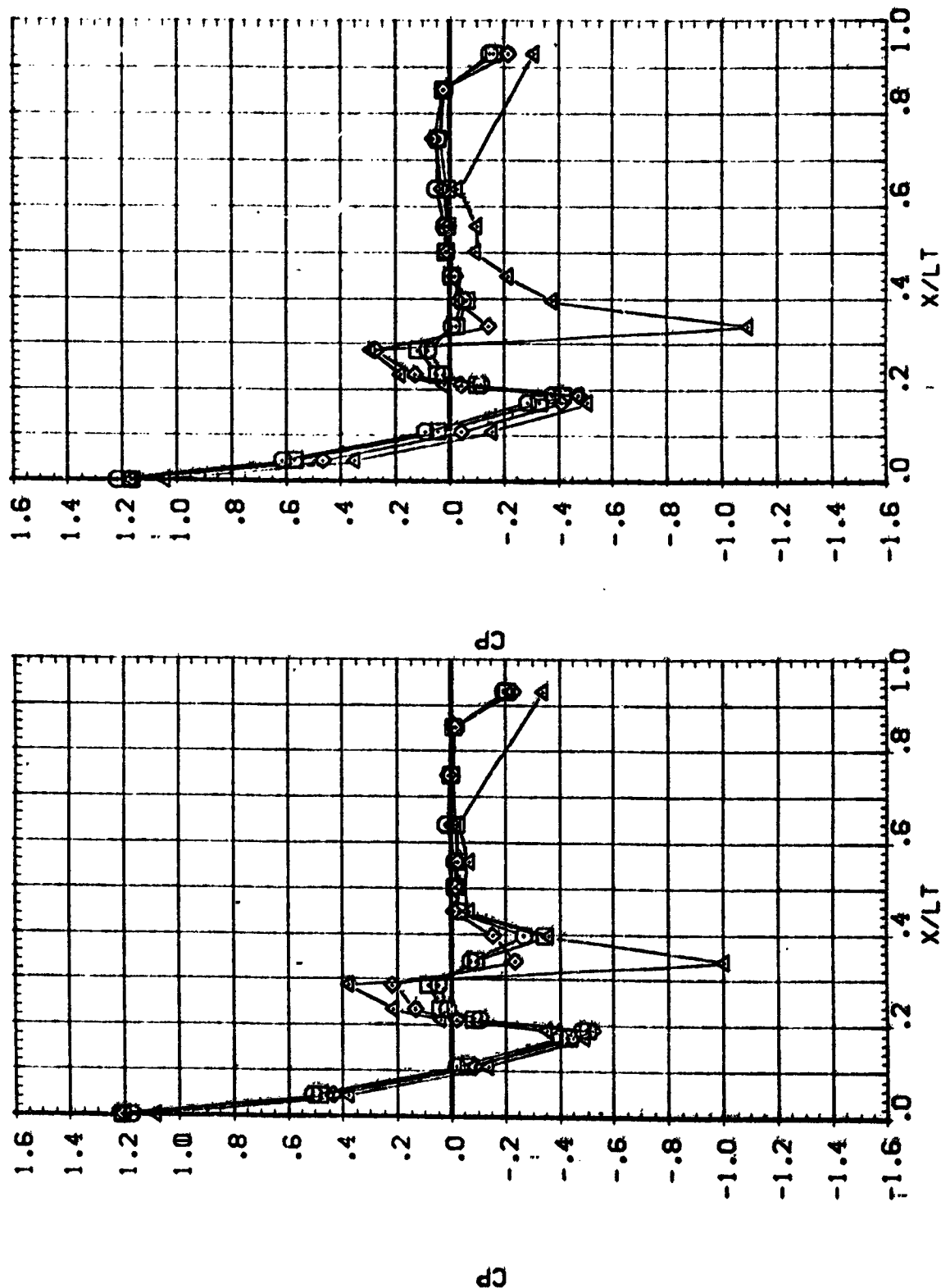
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

SYMBOL
 ○
 ◇
 △

PH: .000
 30.000
 60.000
 90.000

ALPHAT MACH
 4.030 .889
 8.030

PARAMETRIC VALUES
 BETAT .000 DRBINC 1.500
 RUDDER .000 ELEVON .000
 RUDFLR .000

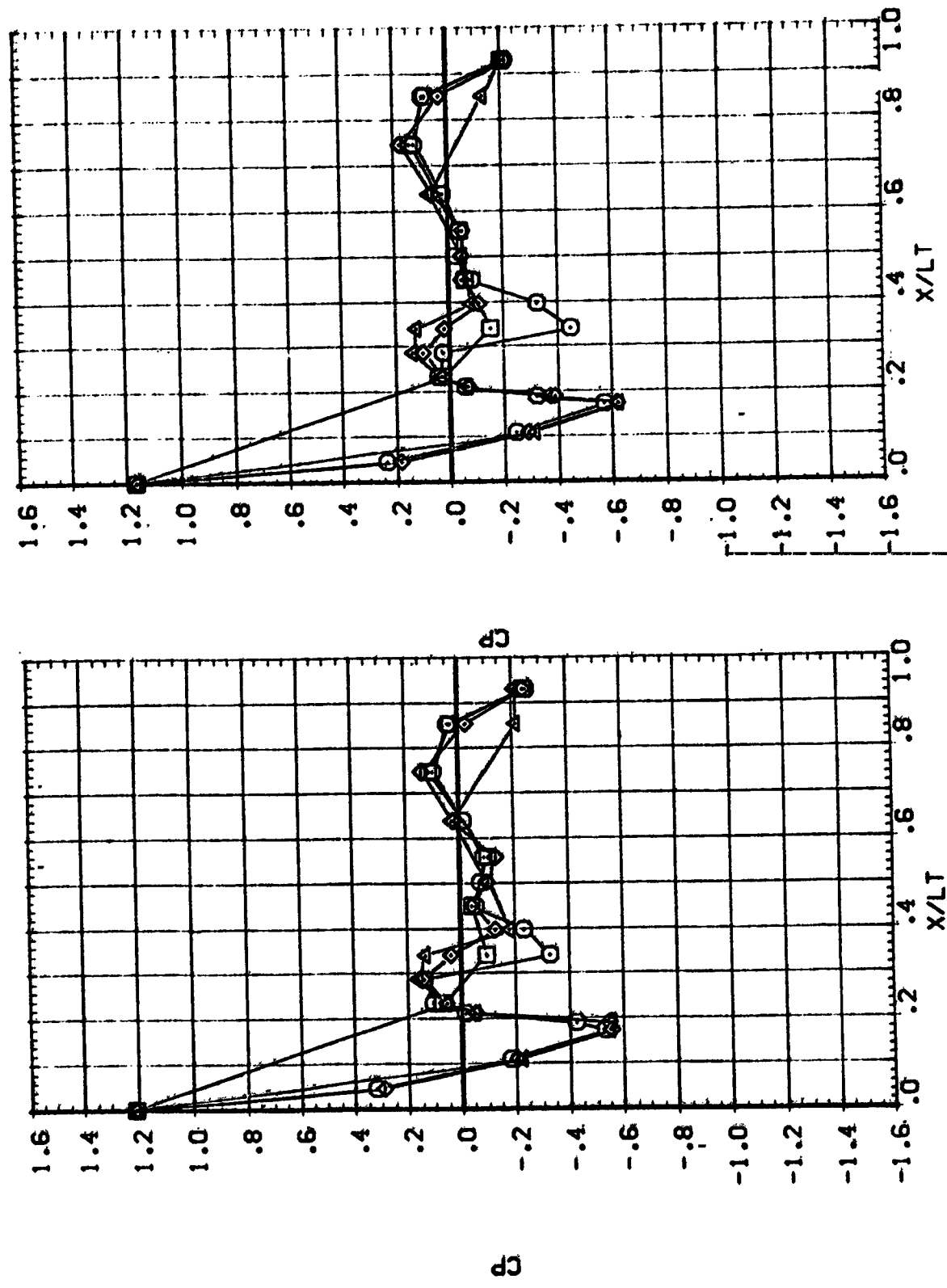


LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES



AMES 11-707 1A9 02A + S3 + T9 EXTERNAL TANK [RBMT01]

SYMBOL	PA	ALPHA	MACH	PARAMETRIC VALUES			
○	120.000	4.030	.889	BETAT	.000	ORBINC	1.500
□	135.000	8.030		RJDER	.000	ELEVON	.000
◇	150.000			RJDFLR	.000		
△	165.000						



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

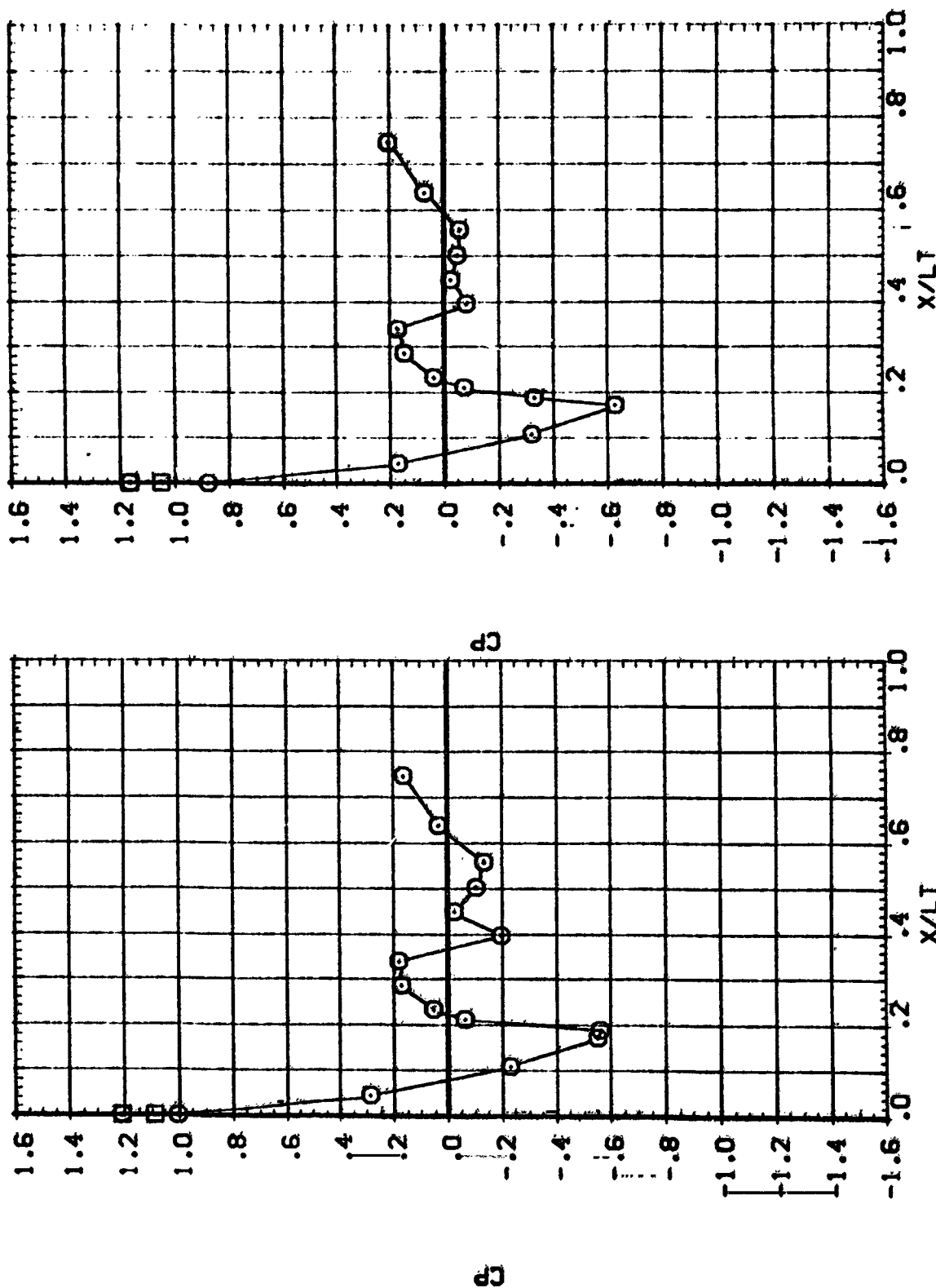


AMES 11-707 1A9 02A + S3 + T9 EXTERNAL TANK (RBMT01)

SYMBOL
○
□

PMI 180.000 4.030
270.000 8.030

PARAMETRIC VALUES
BETAT .000 ORBINC 1.500
RLODER .000 ELEVON .000
RLOFLR .000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES



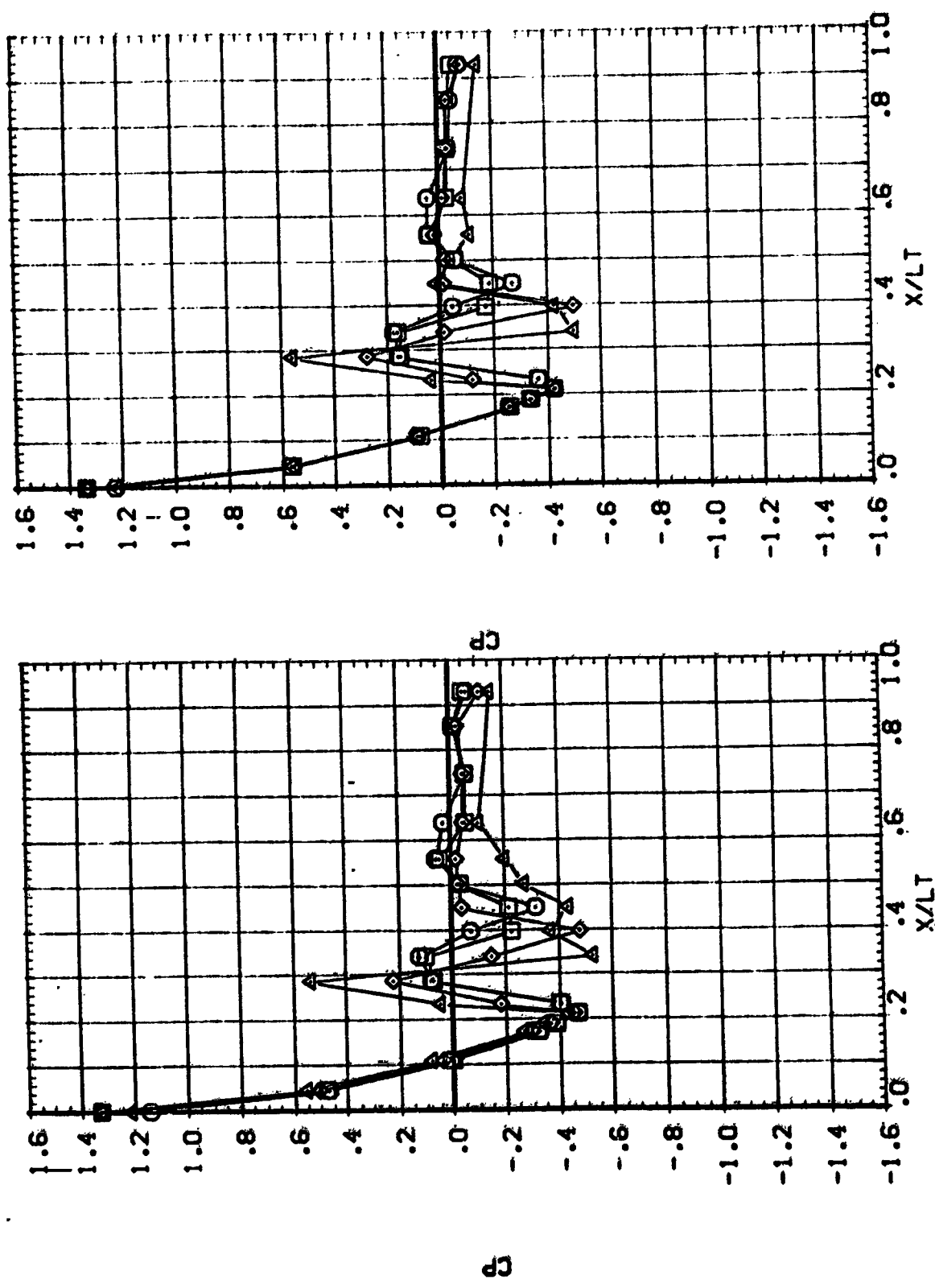
AMES 11-707 1A9 C2A + S3 + T9 EXTERNAL TANK (RBMTQ1)

SYMBOL
□
◇
△

PHI .000
30.000
60.000
90.000

ALPHAT -3.980
MACH 1.104
.030

PARAMETRIC VALUES
BETAT .000
R00DER .000
R0JFLR .000
ORGINC 1.500
ELEVON .000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 11-707 1A9 02A + S3 + T9 EXTERNAL TANK (RBMT01)

SYMBOL

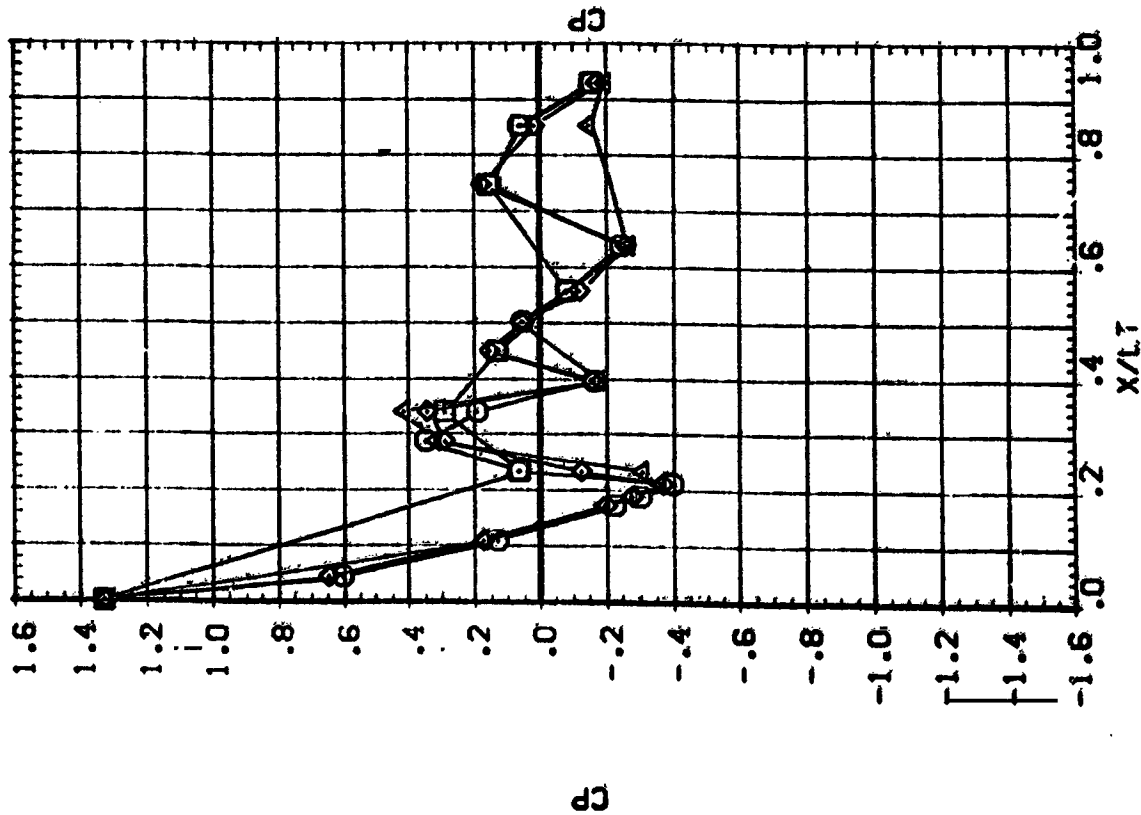
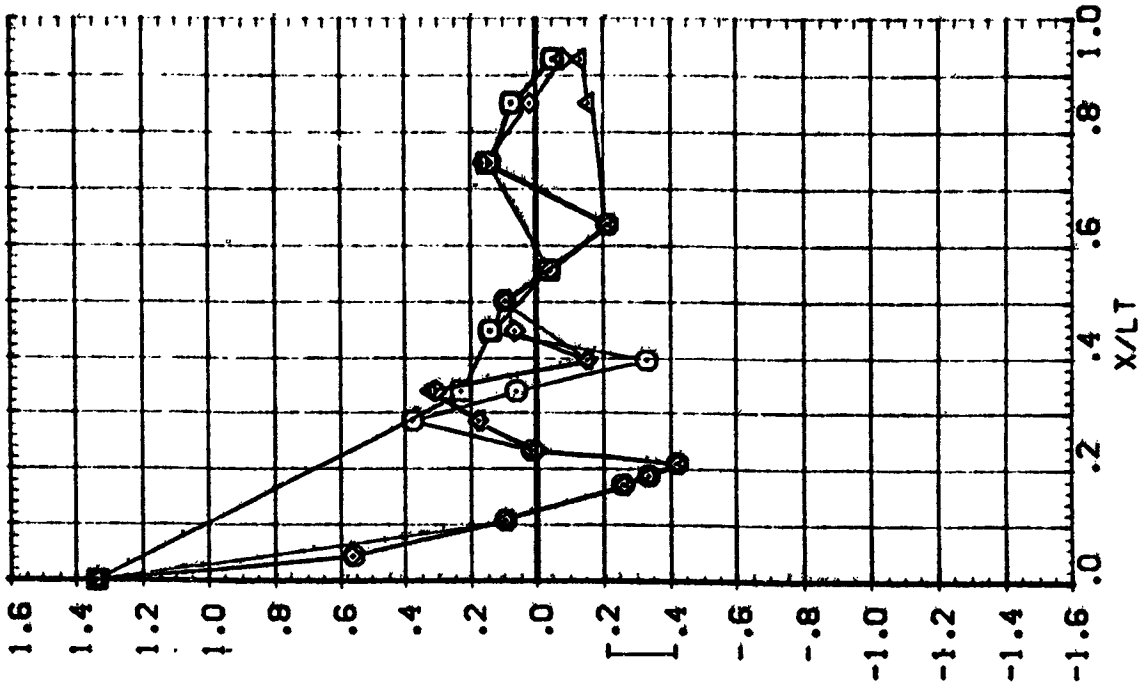
PHI
120.000
135.000
150.000
165.000

ALPHA
-3.980
.030

MACH
1.04

BETAT
RLODR
RLOFLR

PARAMETRIC VALUES
.000 ORBINC
.000 ELEVON
1.500
.000



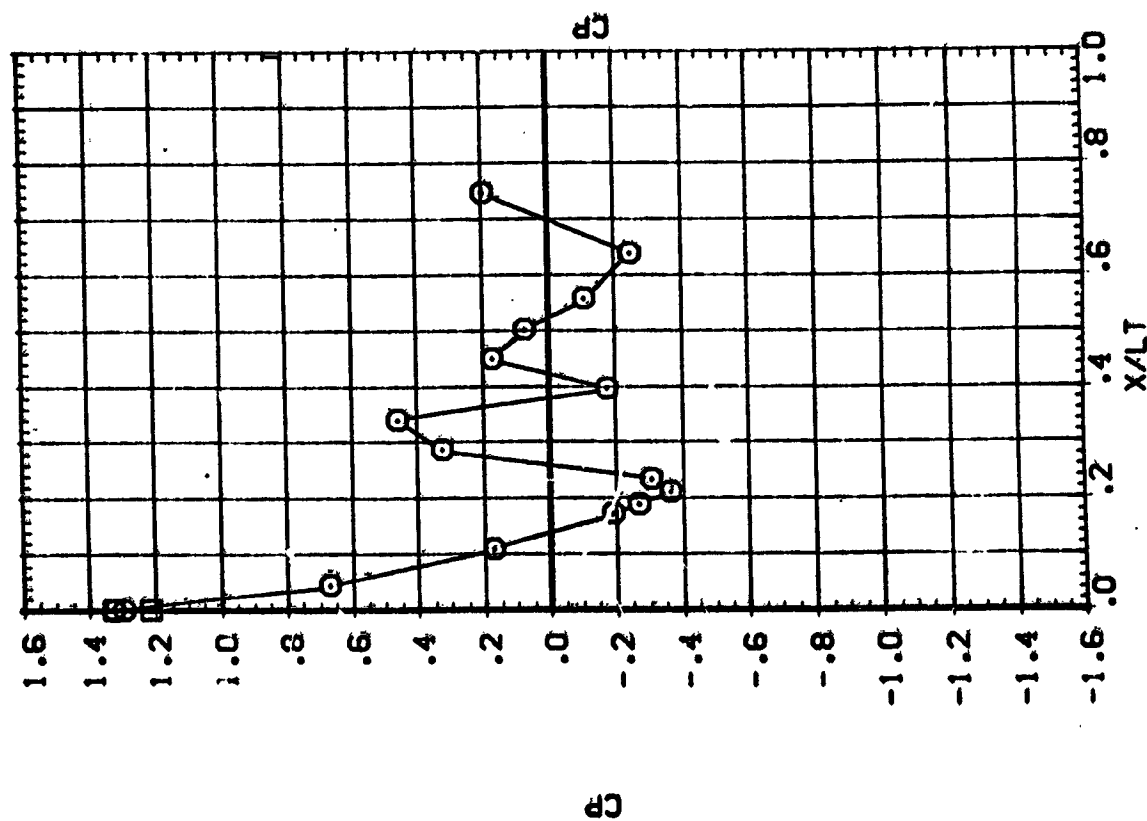
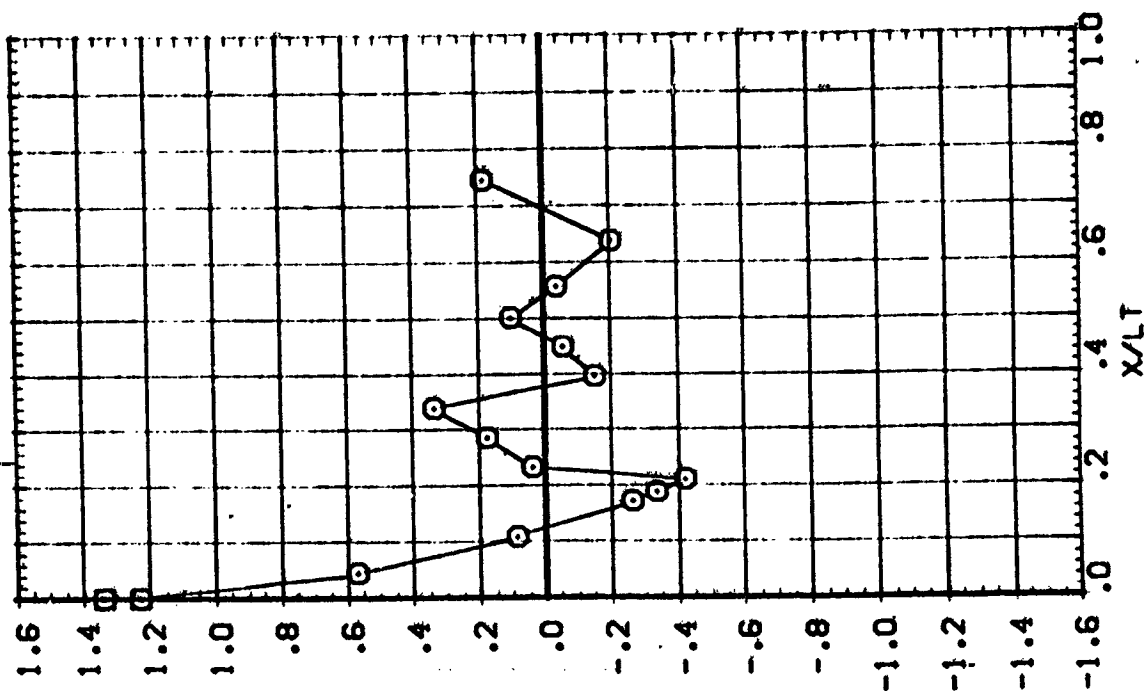
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 11-707 1A9 02A + S3 + T9 EXTERNAL TANK

(RBMT01)

	PARAMETRIC VALUES
BETAT	.000
RJODER	.000
RJOFIR	.000
	1.500
	.000

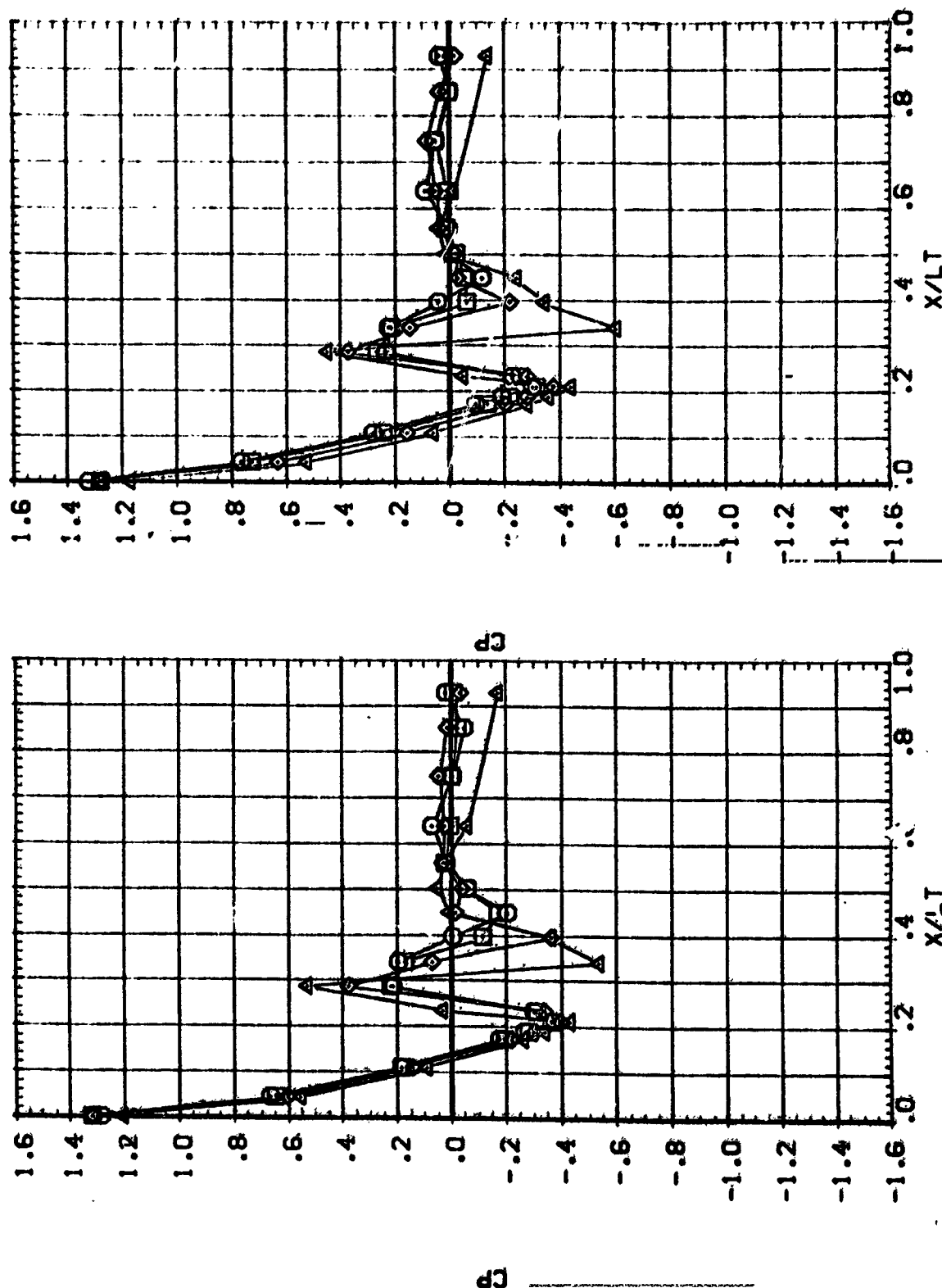
SYMBOL	PHI	ALPHAT	MACH
○	180.000	-3.980	1.104
□	270.000	.030	



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 11-707 1A9 02A + S3 + T9 EXTERNAL TANK (RBMTQ1)

SYMBOL	PNI	ALPHAT	MACH	PARAMETRIC VALUES			
				BETAT	CRBINC	ELEVON	
□	.000	4.026	1.102	.000	.000	1.500	
◇	30.000	7.980		.000	.000	.000	
△	60.000			.000	.000		
	90.000						

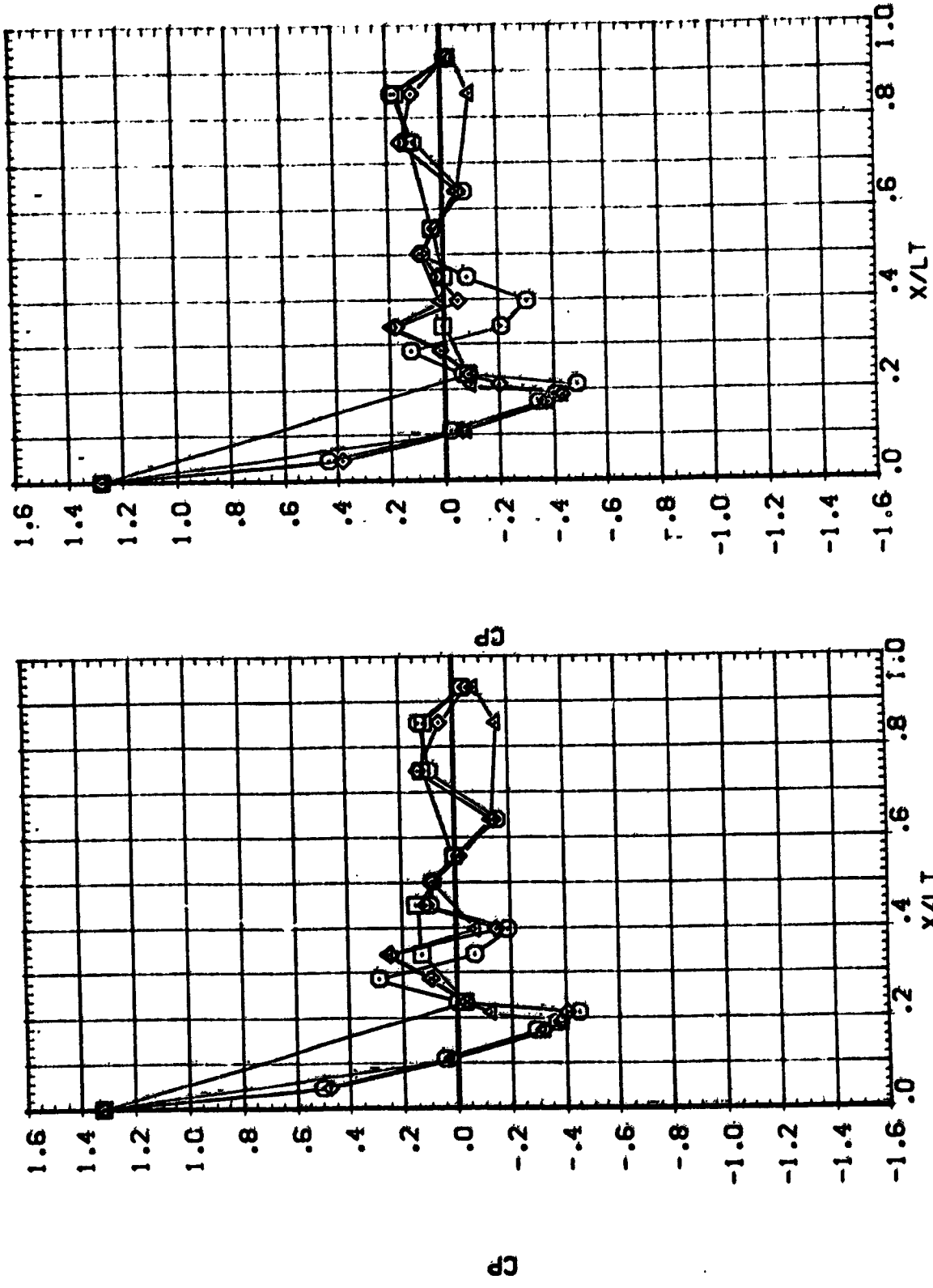


LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES



AMES 11-707 1A9 02A + S3 + T9 EXTERNAL TANK (RBMT01)

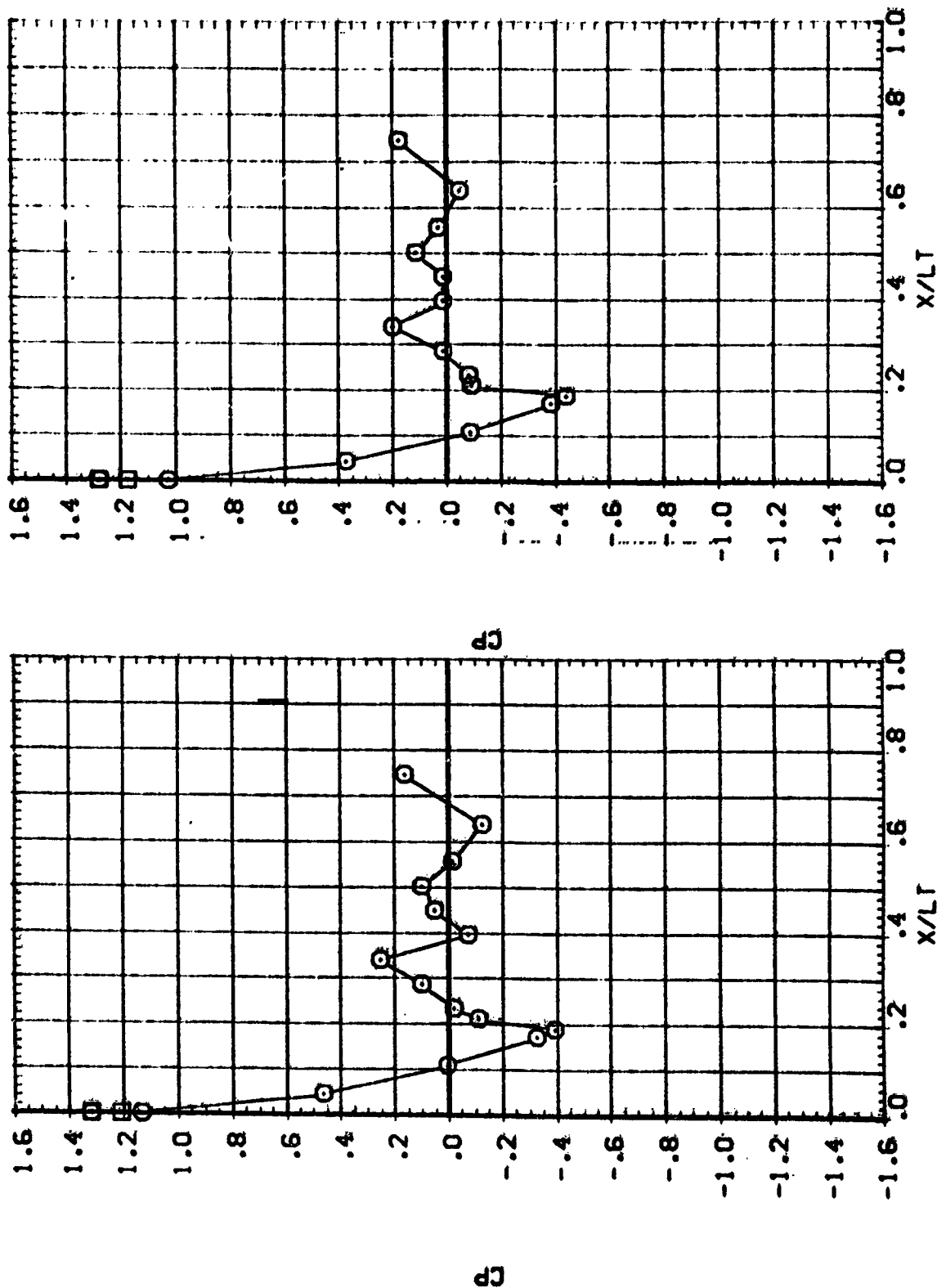
SYMBOL	PHI	ALPHA	MACH	PARAMETRIC VALUES		
○	120.000	4.020	1.102	BETA	ORBIT	1.500
□	135.000	7.980		RJDER	ELEV	.000
◇	150.000			RJFLR		.000
△	165.000					



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 11-707 1A9 02A + S3 + T9 EXTERNAL TANK (RBMTQ1)

SYMBOL	PHI	ALPHAT	MACH	PARAMETRIC VALUES			
OL	180.000	4.028	1.102	BETAT	.000	CRBINC	1.500
	270.000	17.980		RUDER	.000	ELEVON	.000
				RUDFLR	.000		

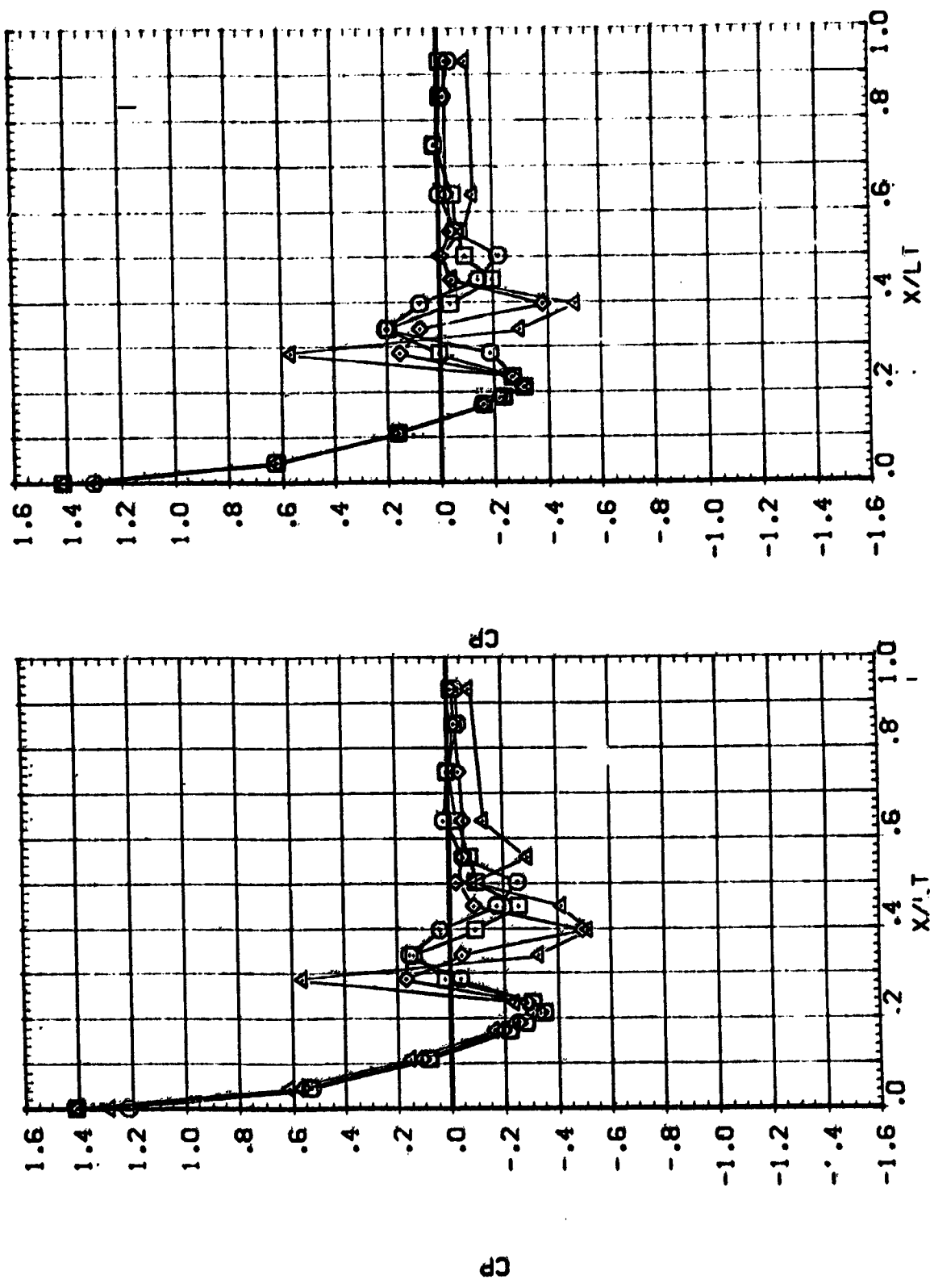


LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 11-707 1A9 Q2A + S3 + T9 EXTERNAL TANK (RBMT01)

PHI	ALPHA	MACH	BEYAT	ORBITAL
.000	-4.030	.248	.000	.000
30.000	.040		.000	.000
60.000			.000	.000
90.000				

PARAMETRIC VALUES



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES



AMES 11-707 1A9 02A + S2 + T9 EXTERNAL TANK (RBM101)

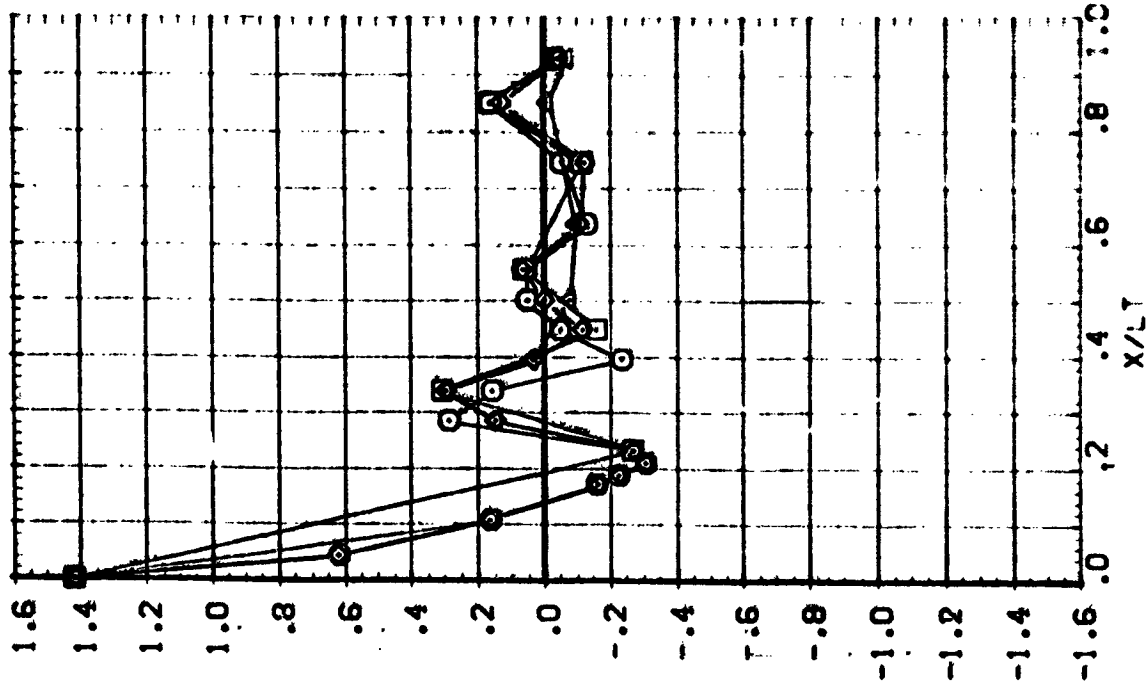
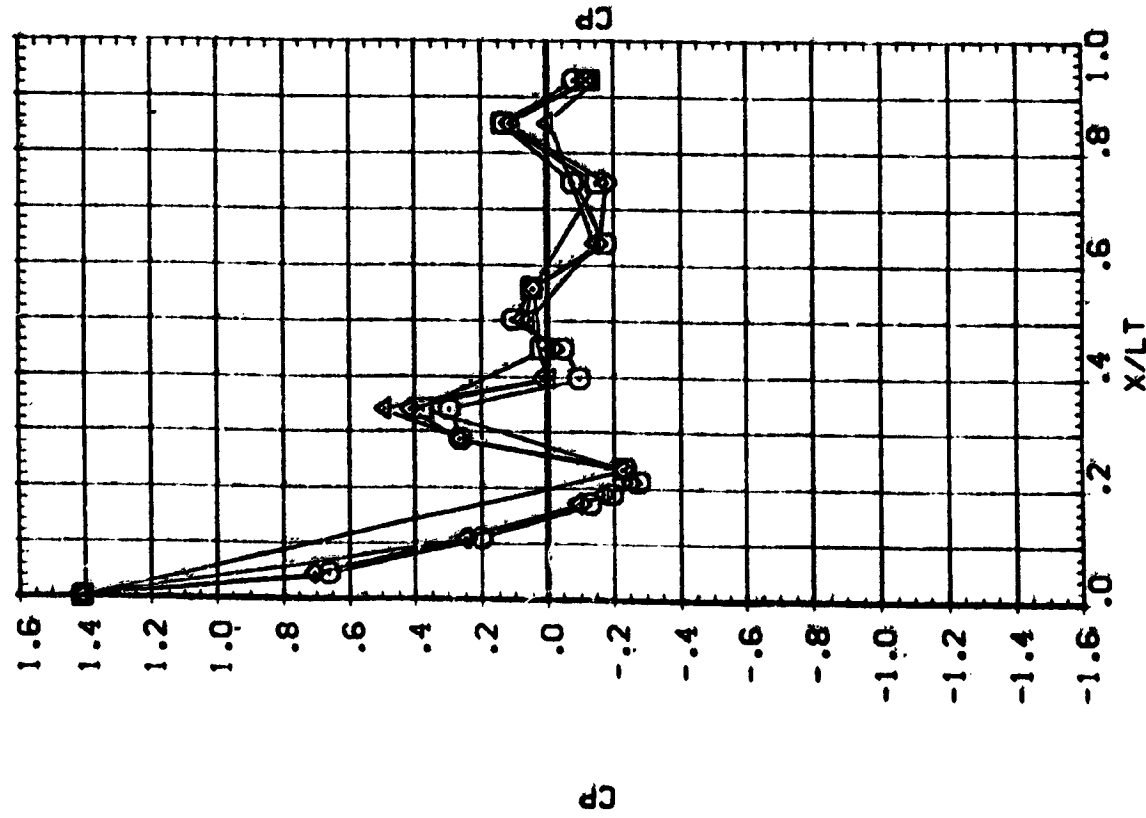
SYMBOL
O I O Δ

PHI
120.000
135.000
150.000
165.000

ALPHAT
-4.000
.040

MACH
1.248

PARAMETRIC VALUES
BETAT .000 0.000
RUDDER .000 0.000
RUFLR .000 0.000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES



AMES 11-707 1A9 02A + S3 + T9 EXTERNAL TANK (R8M10:)

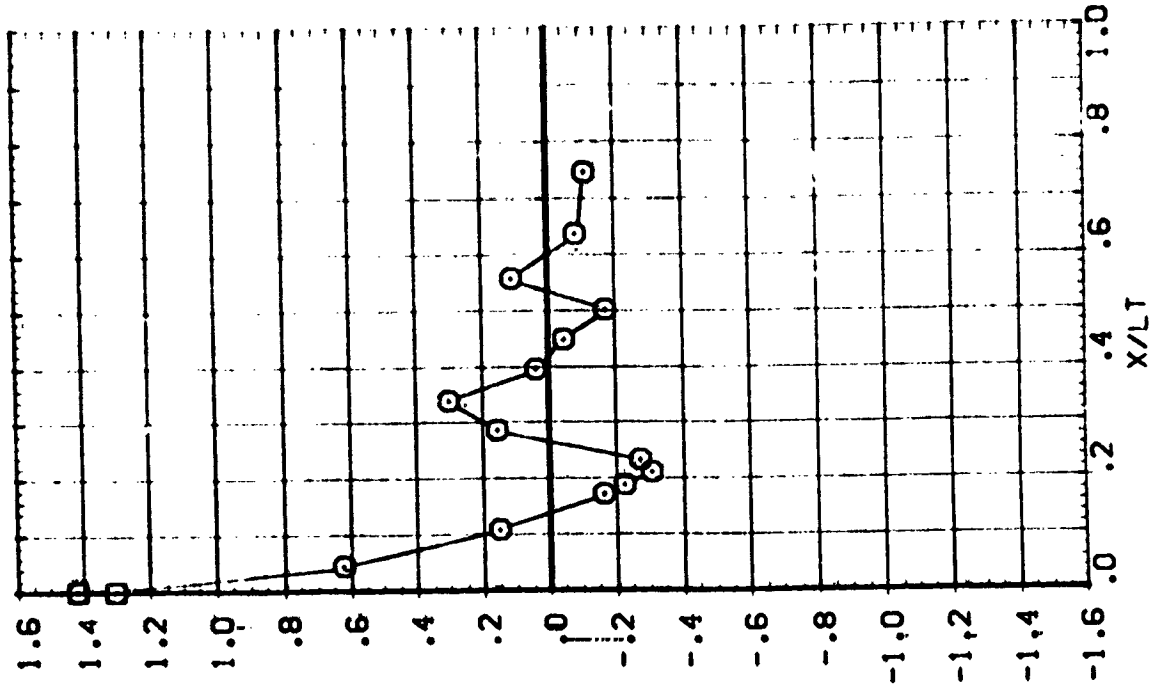
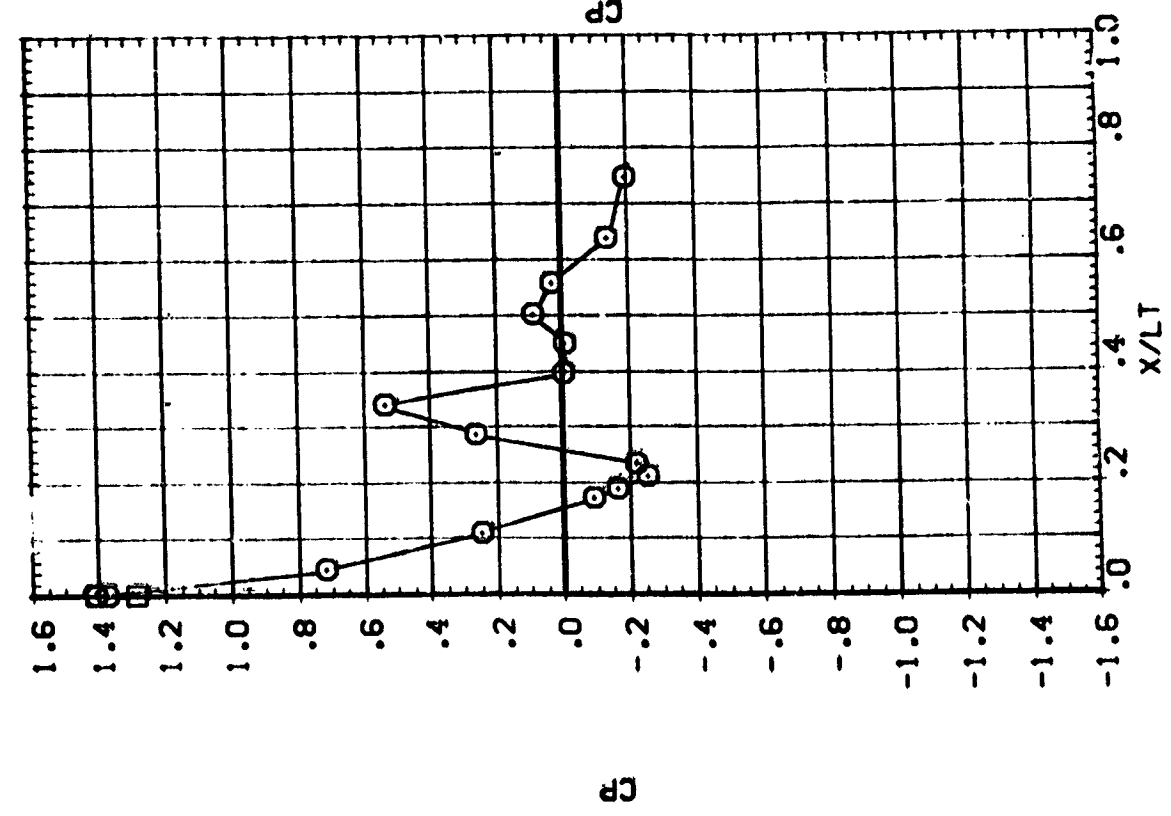
SYMBOL PH1
 180.000
 270.000

ALPMAT
 -4.030
 .040

MACH
 1.248

PARAMETRIC VALUES

BE'A' .000
 RUDER .000
 RUDLR .000
 J881NC .500
 ELEV8 .000

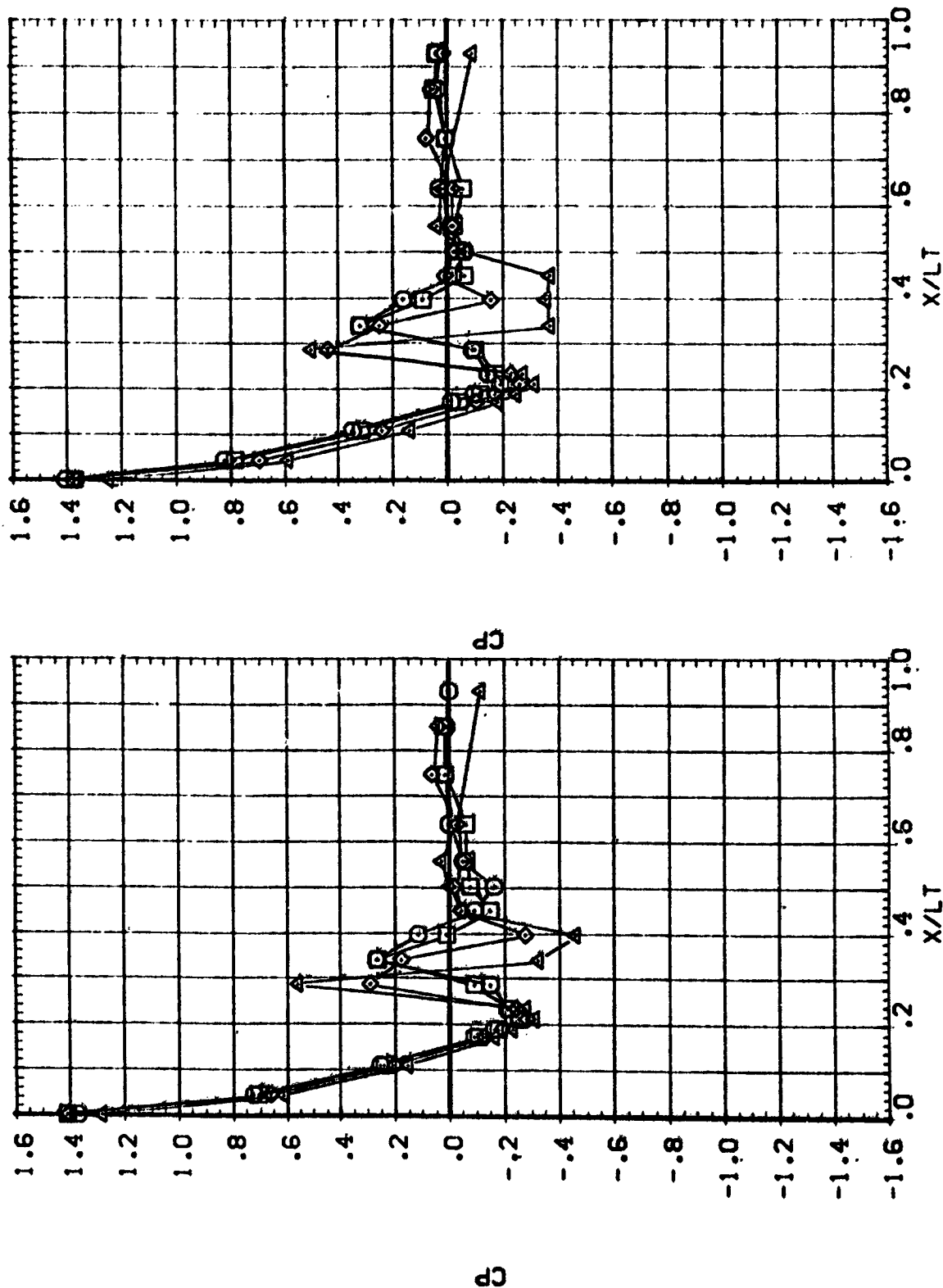


LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

SYMBOL
 ○
 □
 ◇
 △

PH: .000 4.040 1.248
 30.000 8.010
 60.000
 90.000

PARAMETRIC VALUES
 BETAT .000 .000 .000
 RUDDER .000 .000 .000
 RUOFLR .000 .000 .000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 11-707 1A9 02A + S3 + T9 EXTERNAL TANK (RBMT01)

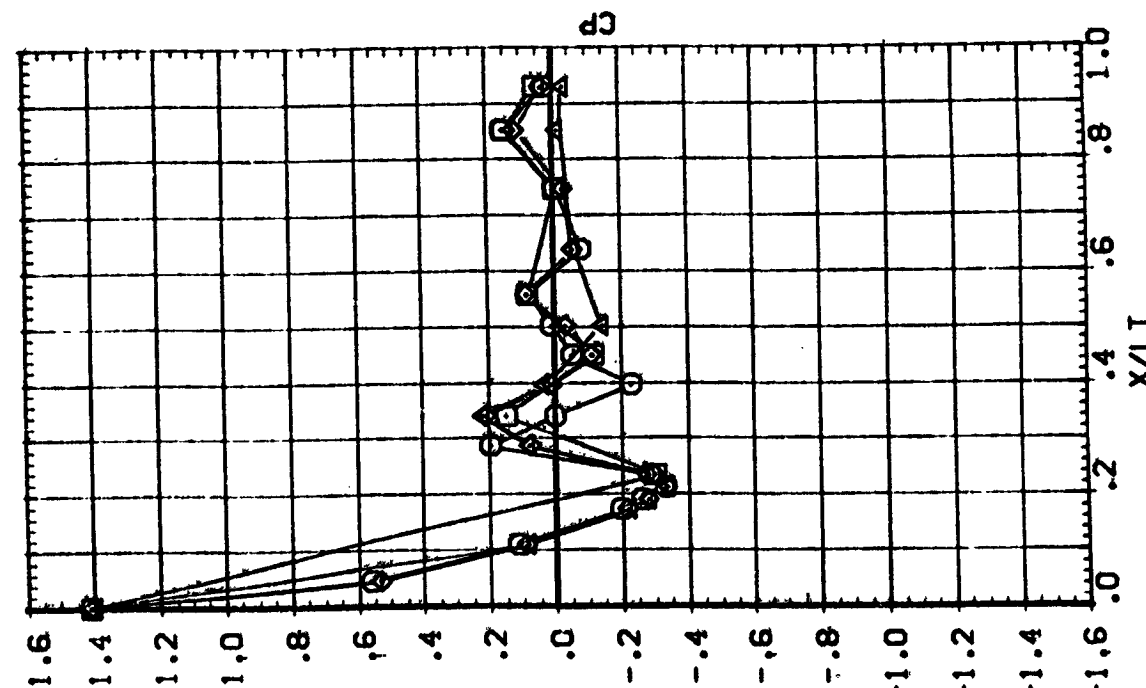
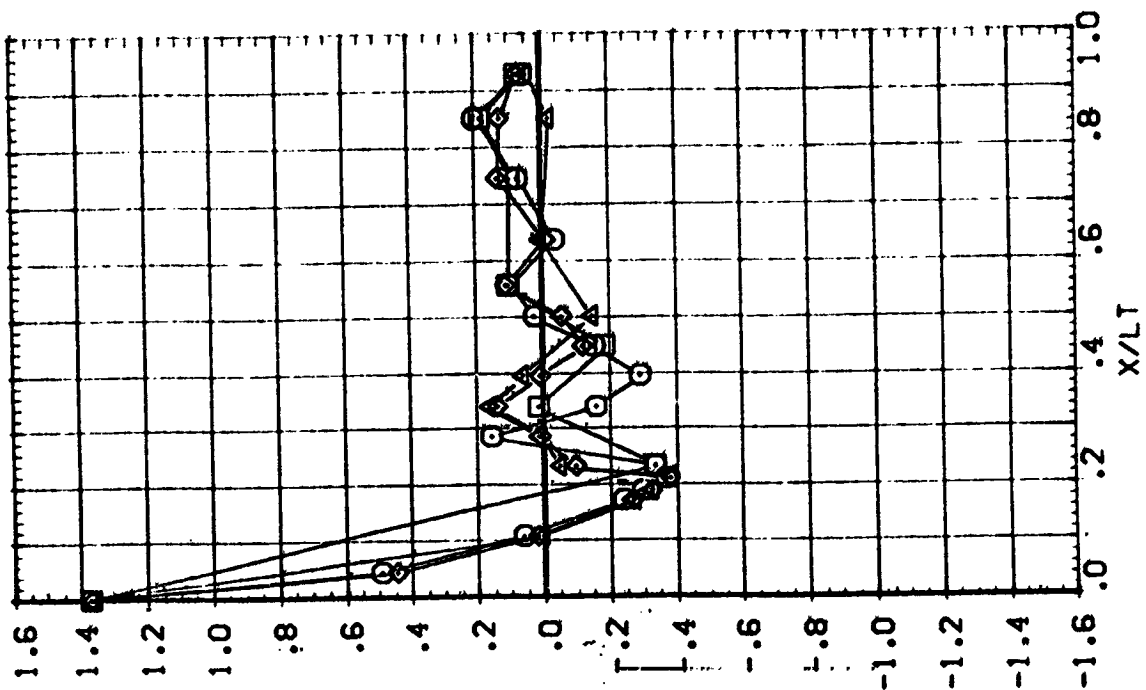
SYMBOL

PHI
120.000
135.000
150.000
165.000

ALPHA
4.042
8.010

MACH
1.248

PARAMETRIC VALUES
BETAT .000 ORBINC 1.500
RJOER .000 ELEVON .000
RJOFLR .000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 11-707 IA9 02A + S3 + T9 EXTERNAL TANK (RBMTQ1)

SYMBOL

PH

ALPHAT

MAGH

180.000

270.000

4.040

8.010

1.248

PARAMETRIC VALUES

BETAT

RJDOER

RJOFIR

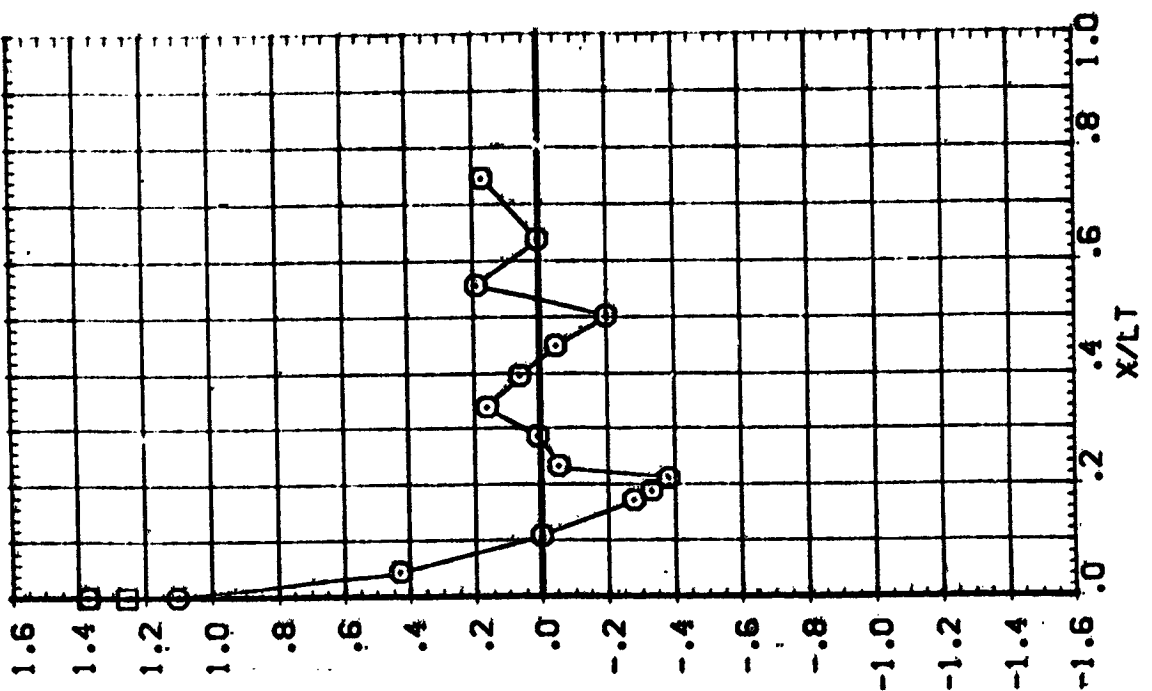
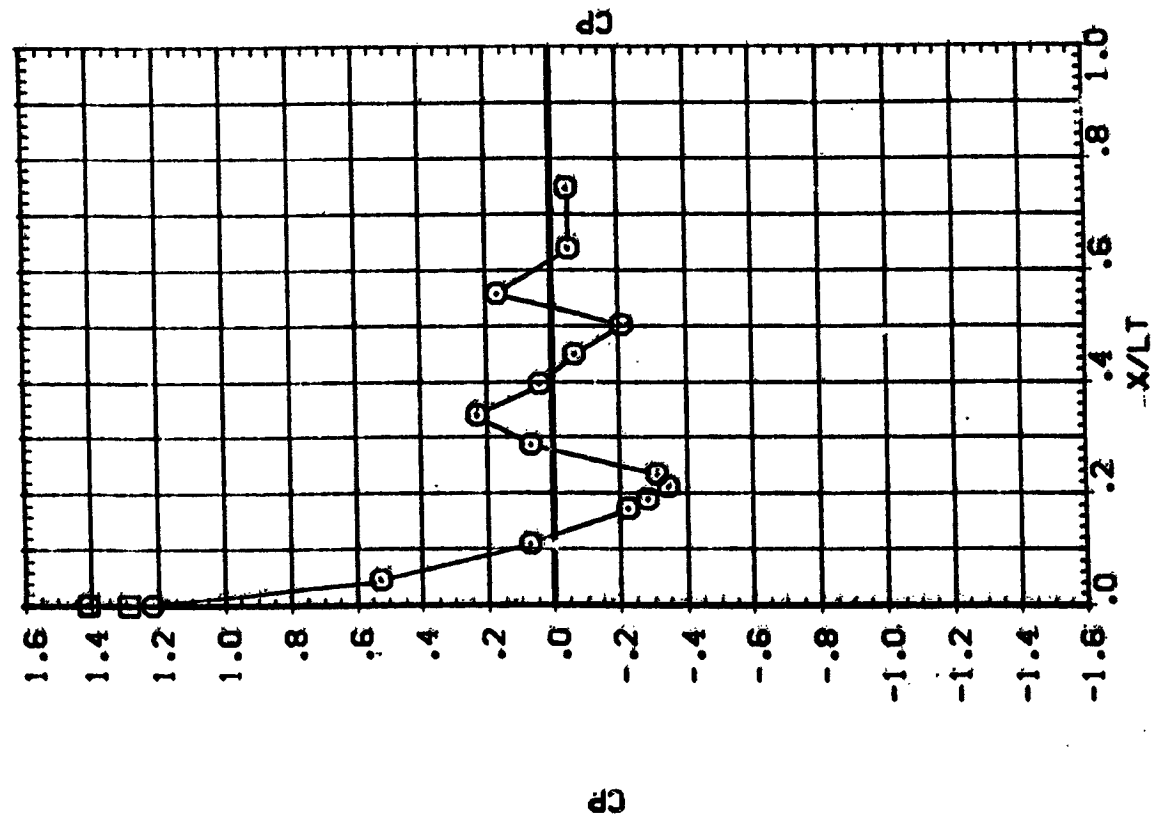
.000

.000

.000

1.500

.000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

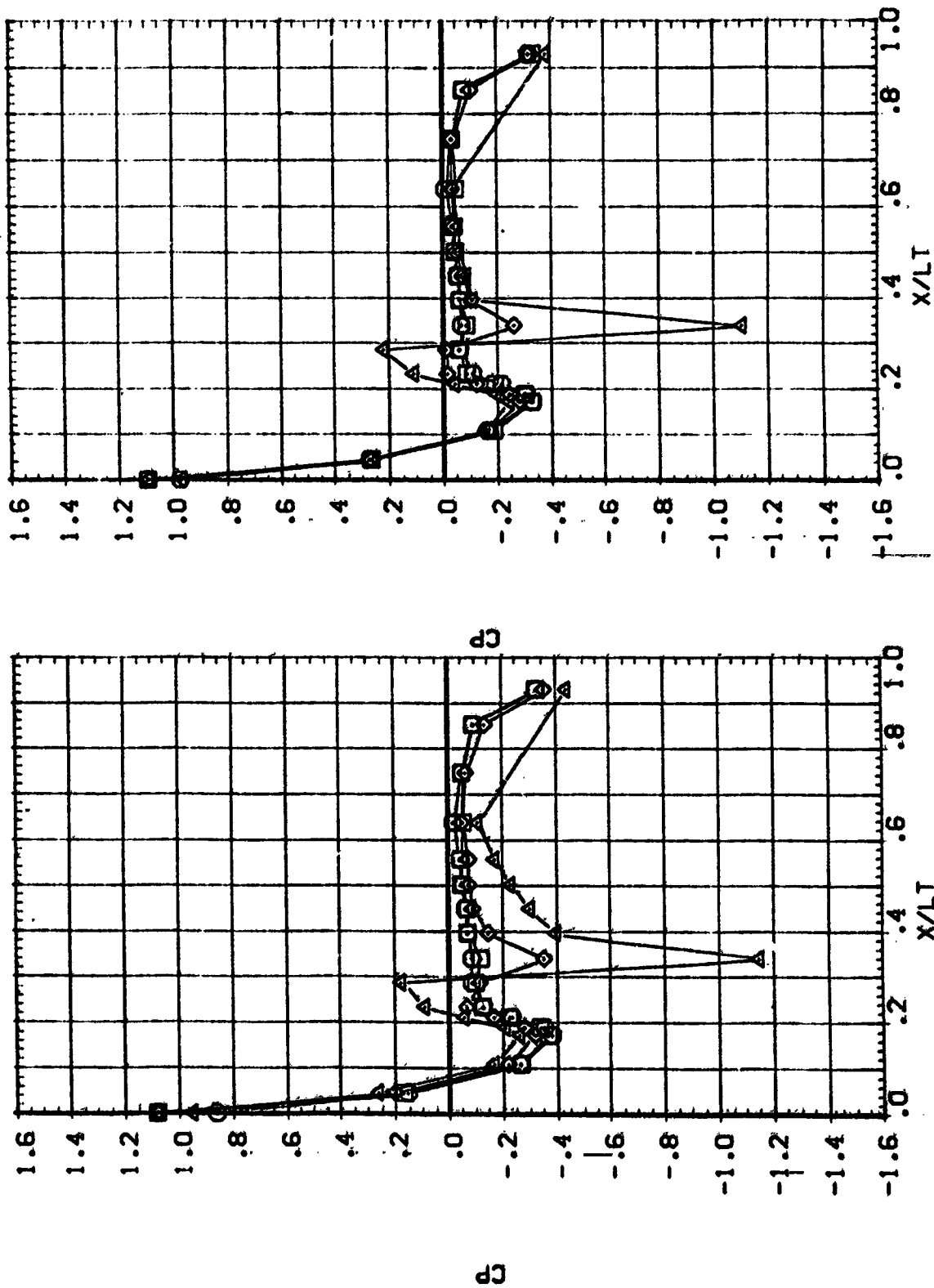
AMES 11-707 1A9 02A + S3 + T9 EXTERNAL TANK (RBMT02)

SYMBOL
 ○ □ ◇ △

PHI .000
 30.000
 60.000
 90.000

PARAMETRIC VALUES
 BETAT .000
 RJOER .000
 RJOFLR .000

OSBINC .500
 ELEVON .000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 11-707 1A9 02A + S3 + T9 EXTERNAL TANK (RBM702)

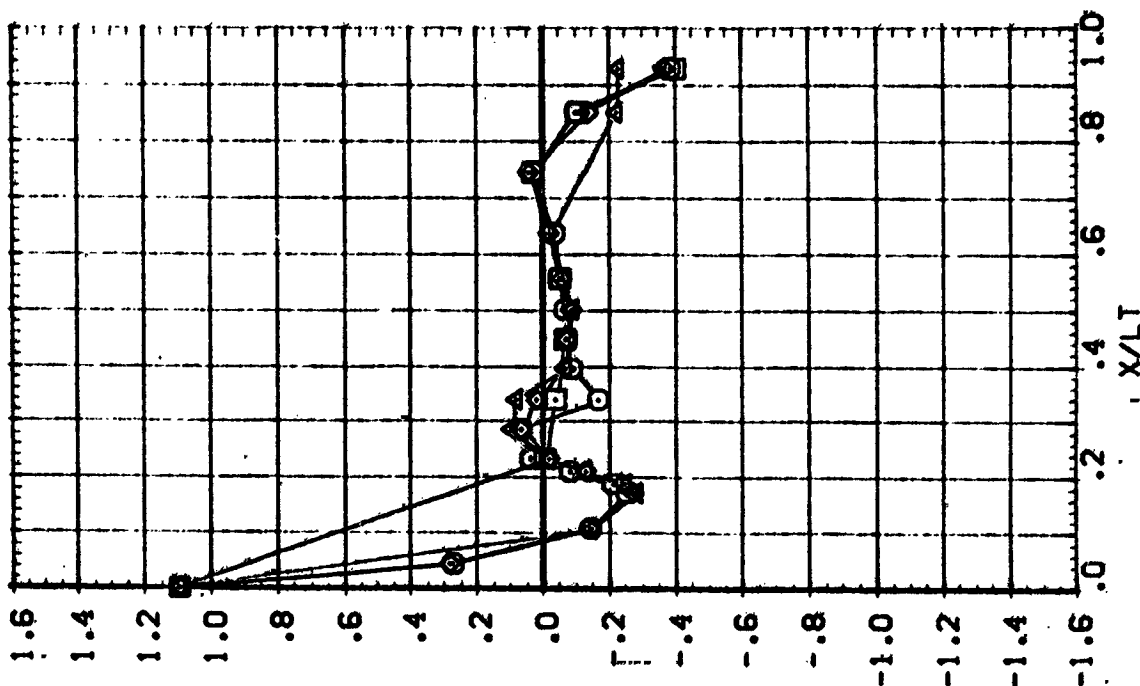
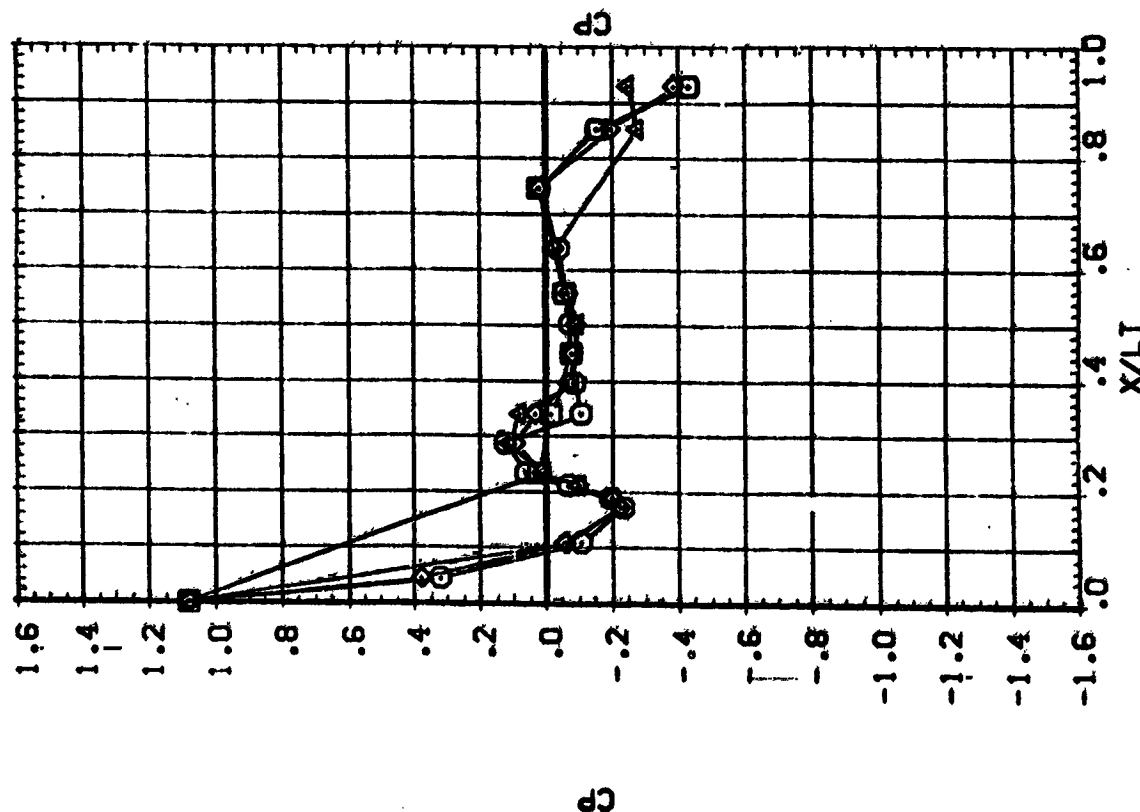
SYMBOL
 O
 □
 ◇
 △

PHI
 120.000
 135.000
 150.000
 165.000

ALPHAT
 -3.990
 .020

MACH
 .599

PARAMETRIC VALUES
 BETA*
 RUDDER
 RUDFLR
 .000
 .000
 .000
 .000
 .000
 .000

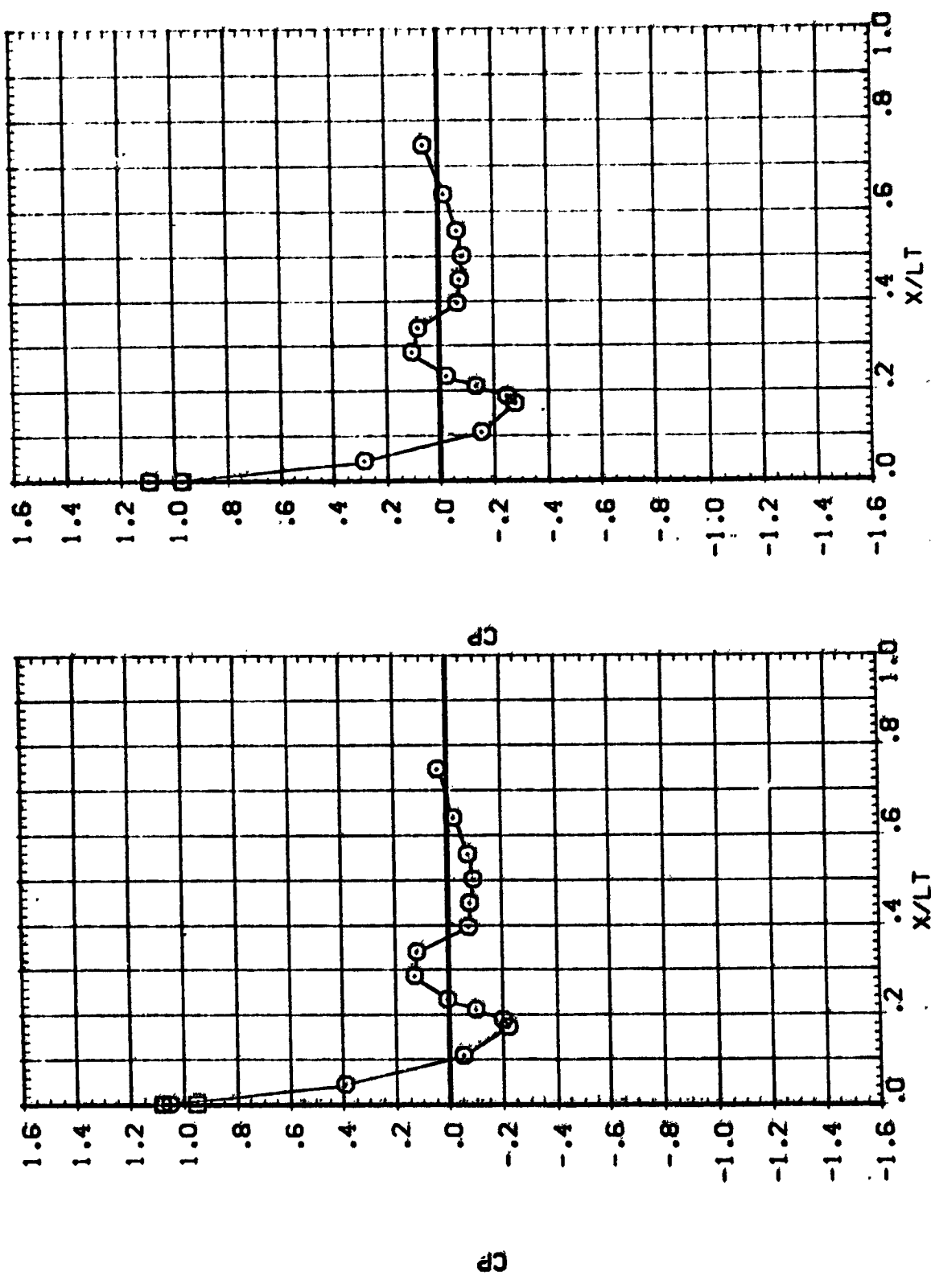


LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES



AMES 11-707 1A9 02A + S3 + T9 EXTERNAL TANK (RBMT02)

SYMBOL	PN1	ALPHAT	MACH	BETAT	RJDDER	RJDFLR	PARAMETRIC VALUES
○	180.000	-3.990	.589	.000	.000	.000	CRBLNC
□	270.000	.020		.000			ELEVON

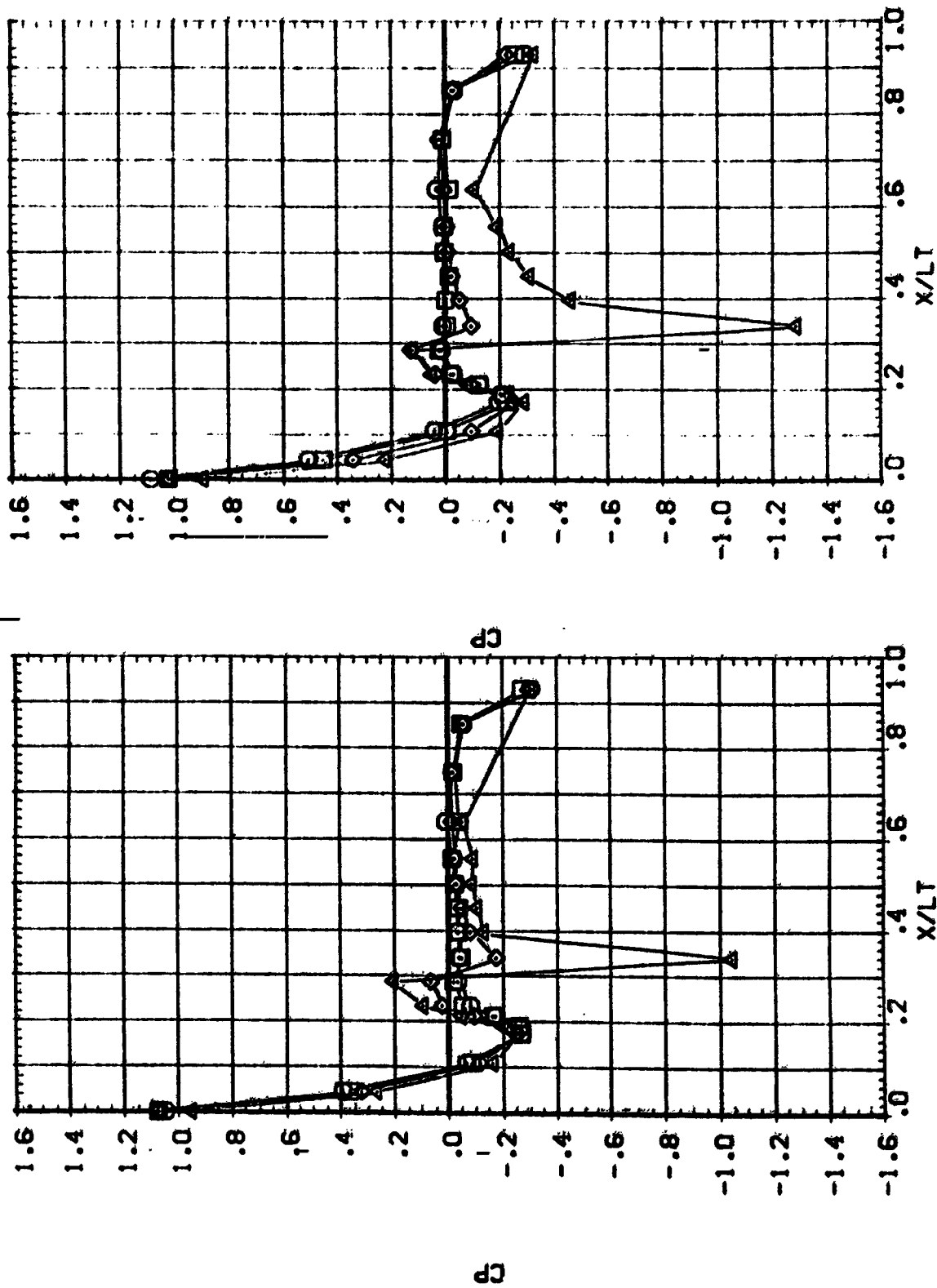


LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 11-707 1A9 02A + S3 + 19 EXTERNAL TANK (RBMT02)

PARAMETRIC VALUES
 BETAT .000 ORBINC .500
 RLODR .000 ELEVON .000
 RLOFLR .000

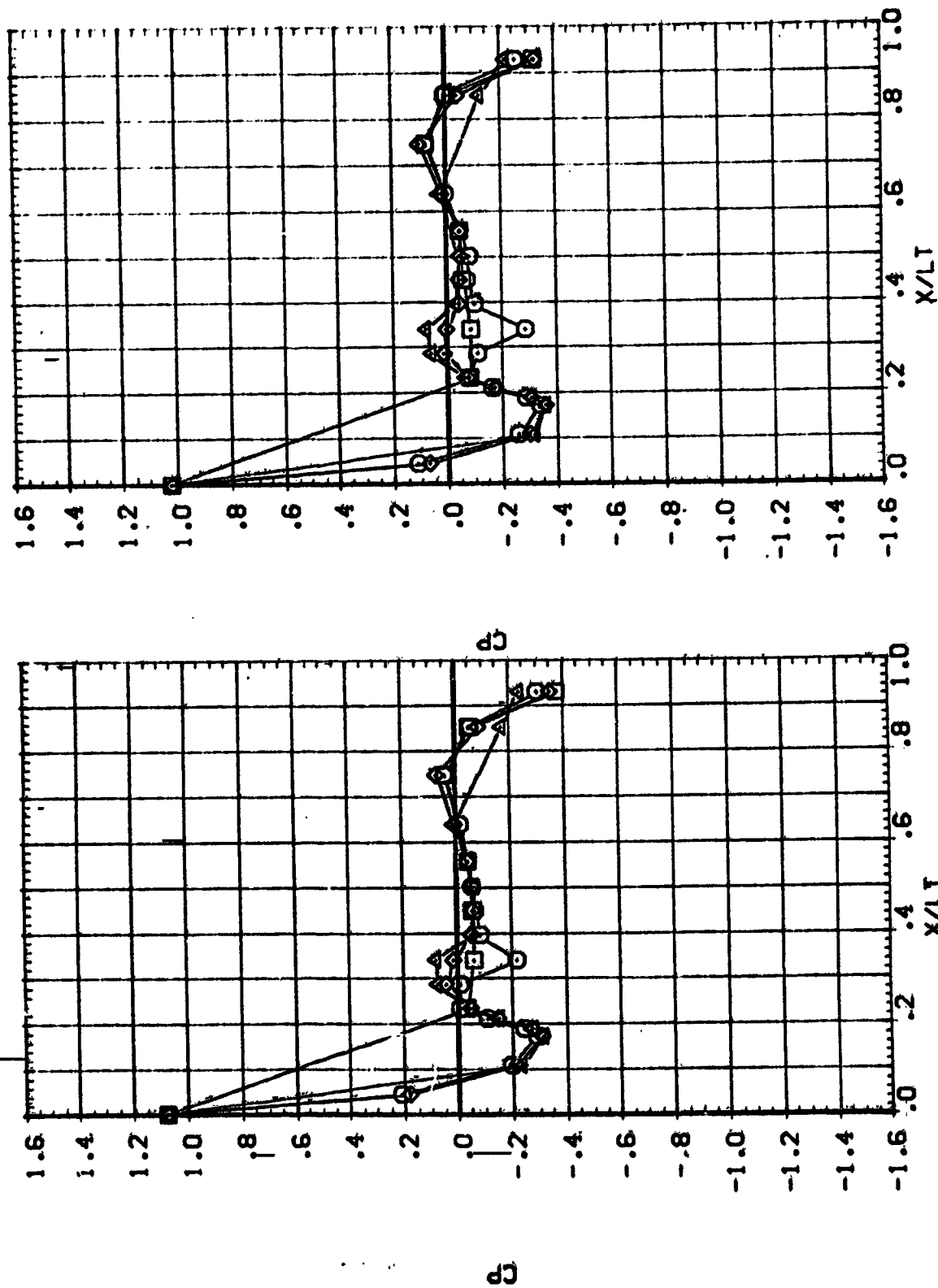
SYMBOL
 ○ □ ◇ △
 PWT .000 MACH .587
 30.000 4.020 8.000
 62.000
 90.000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 11-707 1A9 02A + S3 + T9 EXTERNAL TANK (RBMT02)

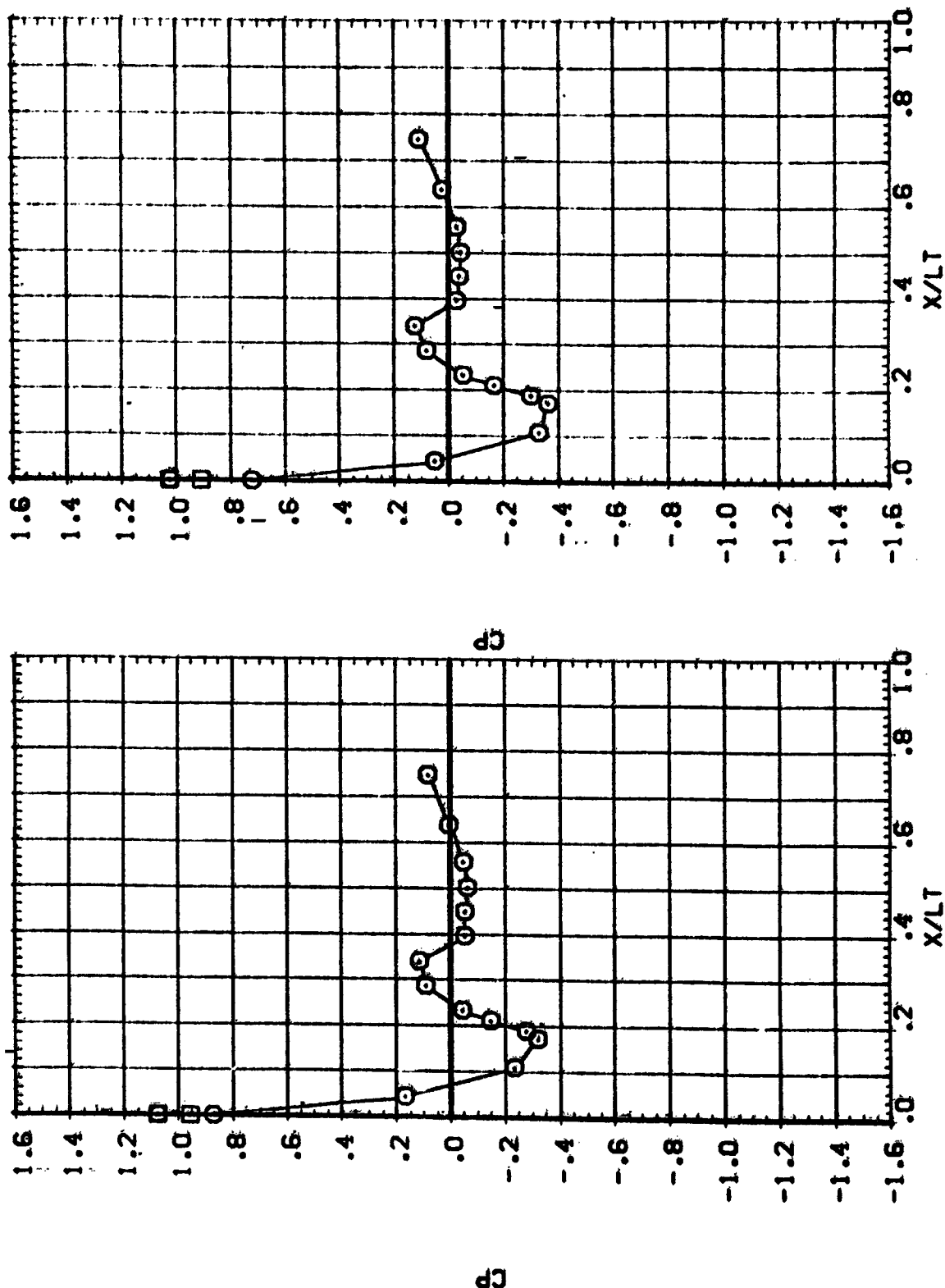
SYMBOL	PH-1	ALPHAT	MACH	BETAT	PARAMETRIC VALUES
□	128.000	4.020	.597	RUDDER	.000 DRBINC
◇	135.000	8.000		RUDLR	.000 ELEVON
△	150.000				.000
	165.000				.000



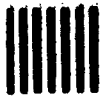
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 11-707 1A9 C2A + S3 + T9 EXTERNAL TANK (RBMT02)

SYMBOL	PN1	ALPHAT	MACH	PARAMETRIC VALUES	
○	180.000	4.020	.597	BETAT	.000
□	270.000	9.000		RJODER	.000
				RJOFIR	.000
					.500
					.000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES



AMES 11-707 1A9 02A + S3 + T9 EXTERNAL TANK (RBMT02)

SYMBOL
 ○ □ ◇ △

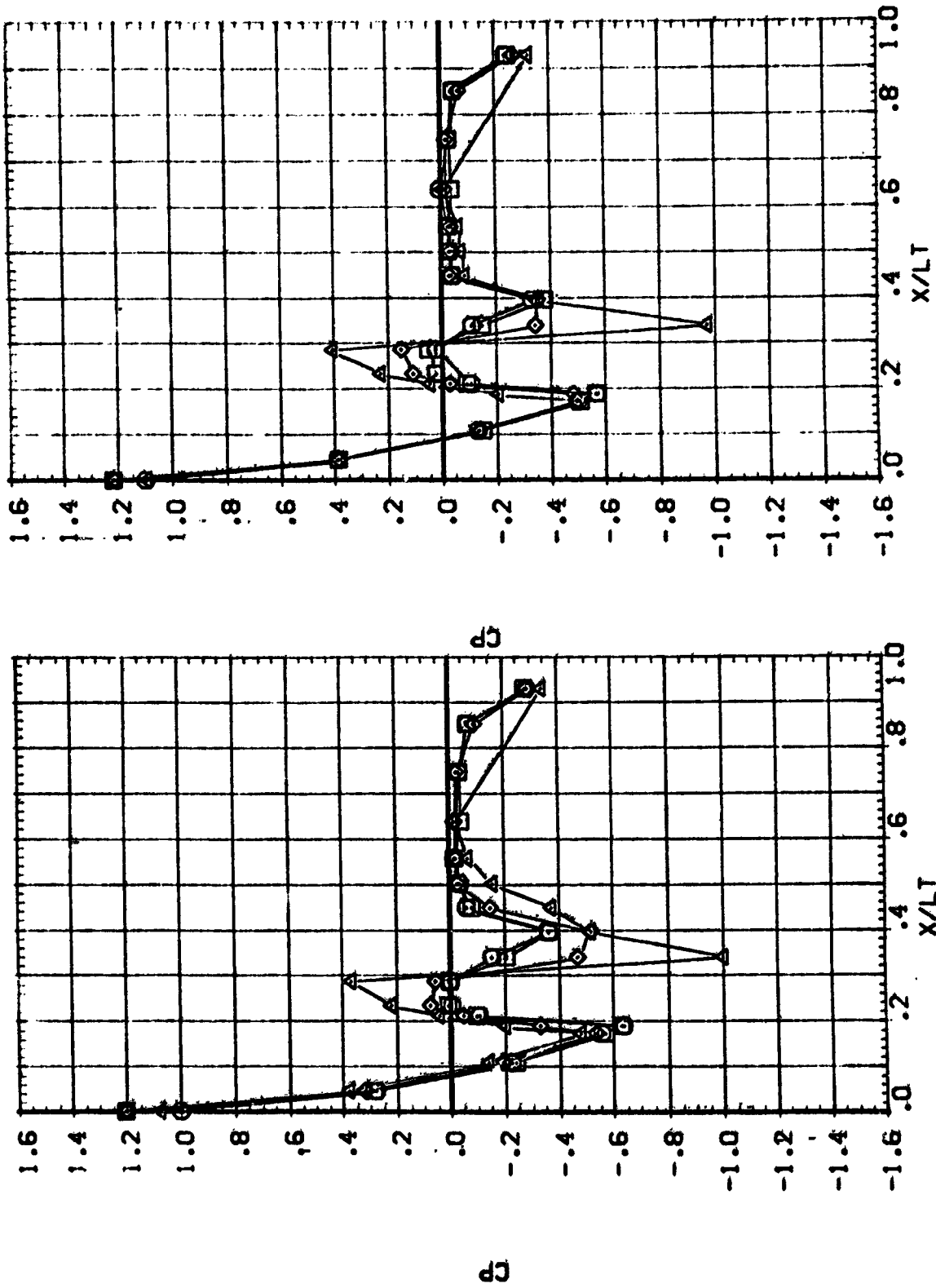
PHI .000
 30.000
 60.000
 90.000

ALPHA 4.030
 .010

MACH .900

PARAMETRIC VALUES
 BETAT .000
 RUDDER .000
 RUDFLR .000

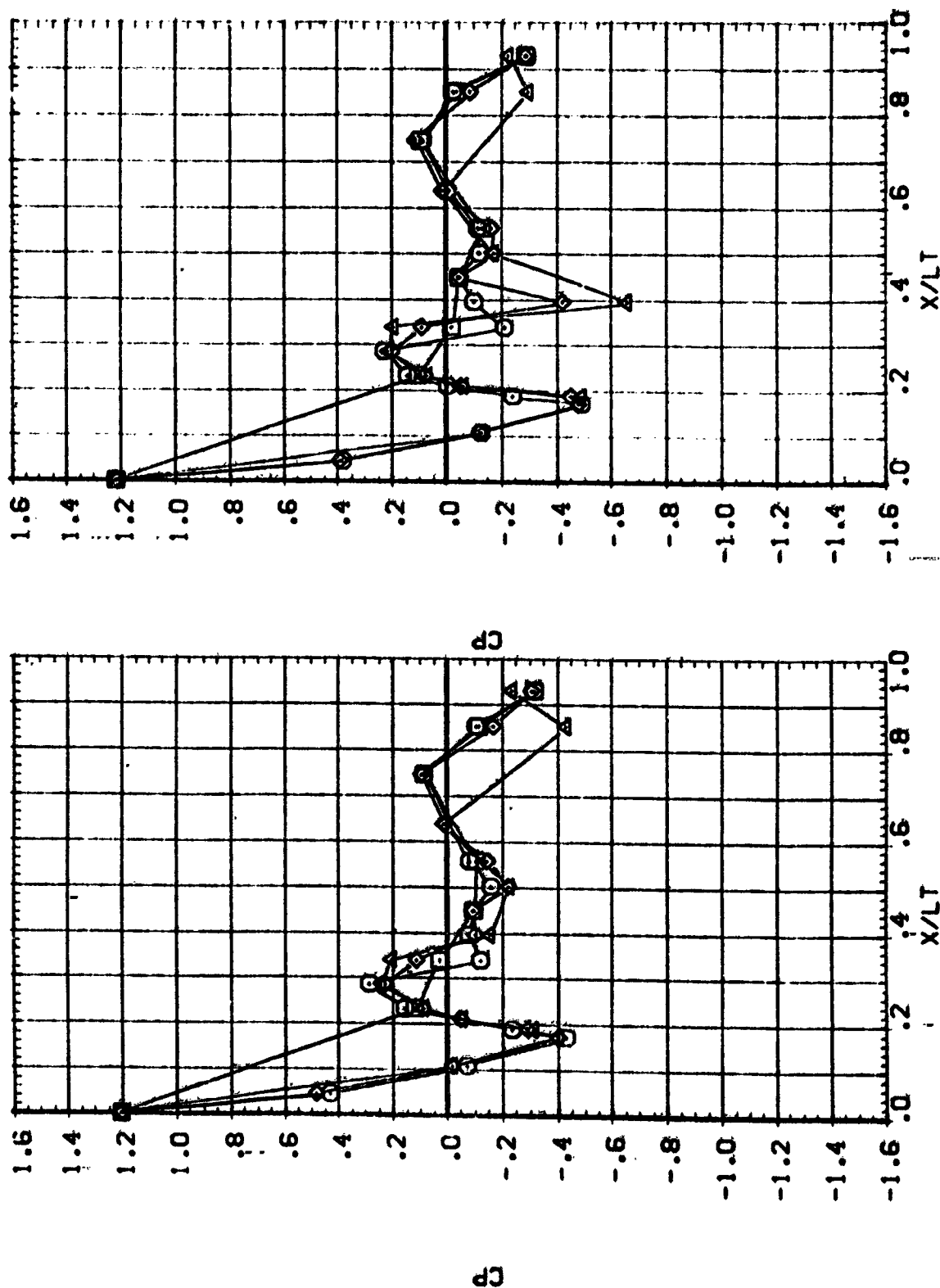
CRBINE .500
 ELEVON .000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 11-707 IAG 02A + S3 + T9 EXTERNAL TANK (RBMT02)

SYMBOL	PHI	ALPHAT	MACH	BETAT	ORBINC	ELEVON
○	120.000	-4.000	.900	.000	.000	.500
□	135.000	.010		.000	.000	.000
◇	150.000			.000	.000	
△	165.000					



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

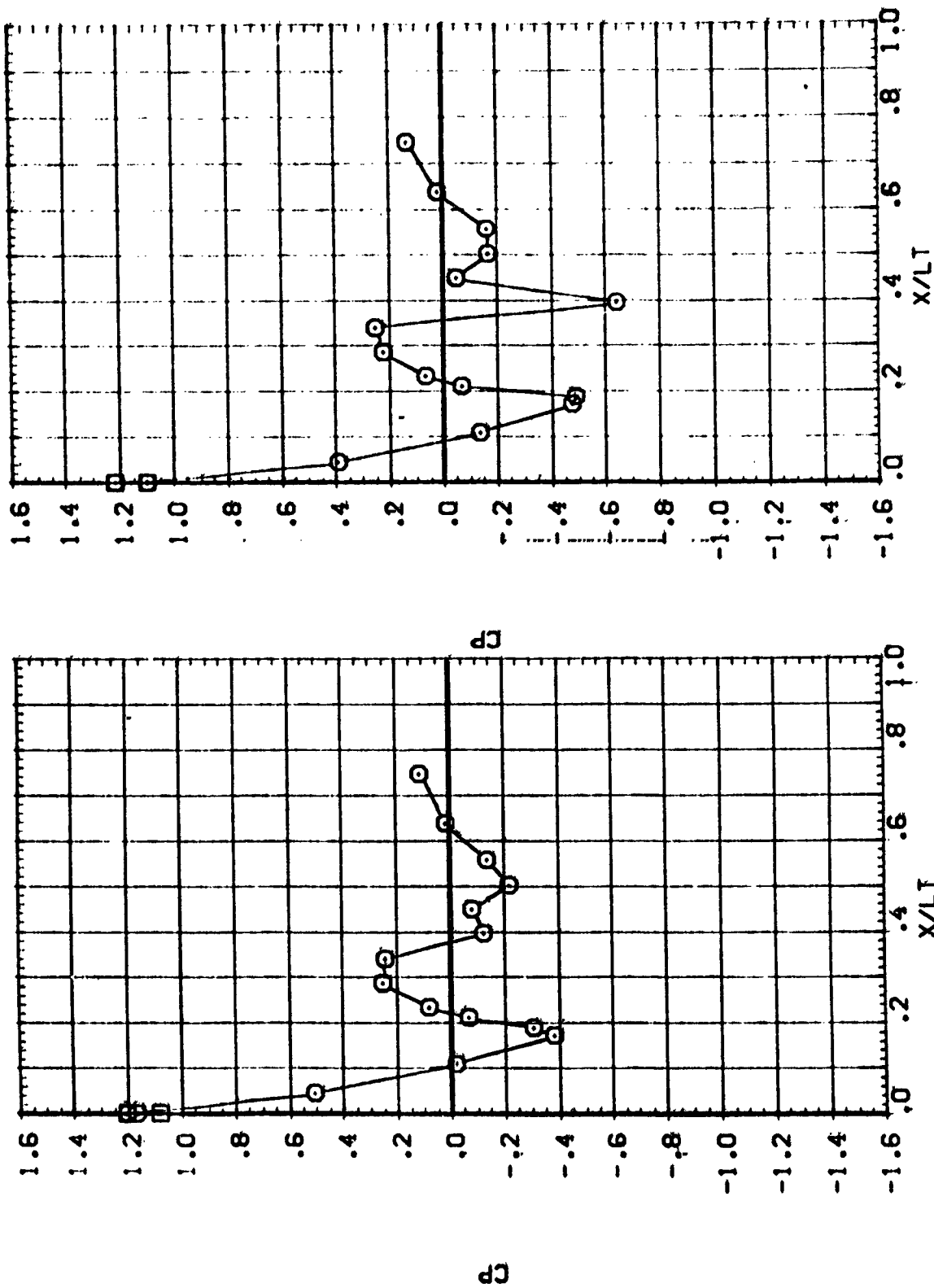


AMES 11-707 1A9 02A + S3 + T9 EXTERNAL TANK (RBMT02)

SYMBOL
○ □

PHI 180.000
270.000
ALPHA 1
-4.000
MACH .900
.010

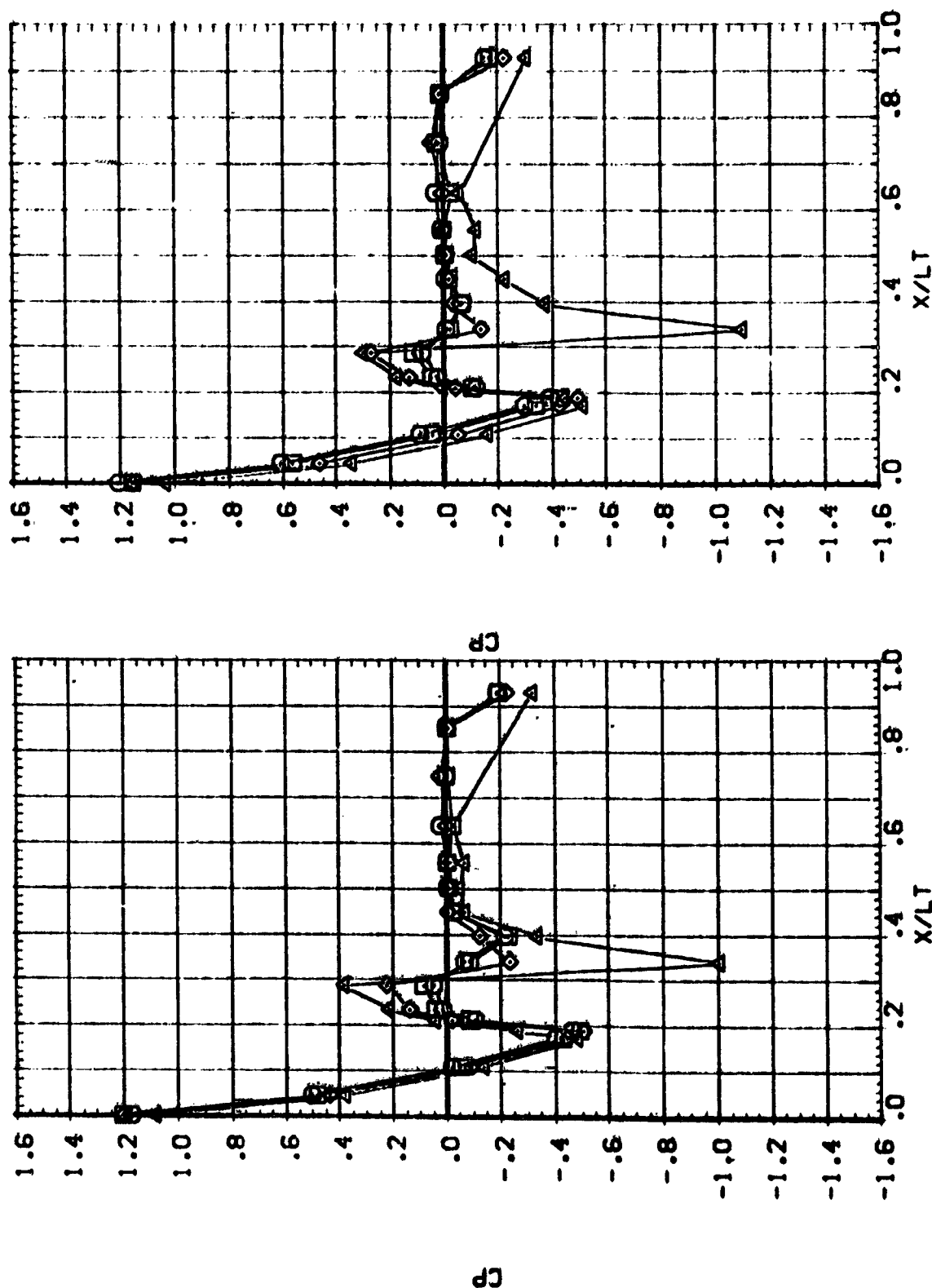
PARAMETRIC VALUES
BETAT .000
RUDDER .000
RUFLE .000
ORBITAL .500
ELEVON .000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 11-707 IAS 02A + S3 + T9 EXTERNAL TANK (RBMT02)

SYMBOL	PHI	ALPHA	MACH	PARAMETRIC VALUES		
○	.000	4.040	.905	BETAT	CRIBING	.500
□	30.000	8.000		RJODER	ELEVON	.000
◇	60.000			RJOFIR		
△	90.000					



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AW-S 11-707 : A9 CZA + S3 + T9 EXTERNAL TANK

01104

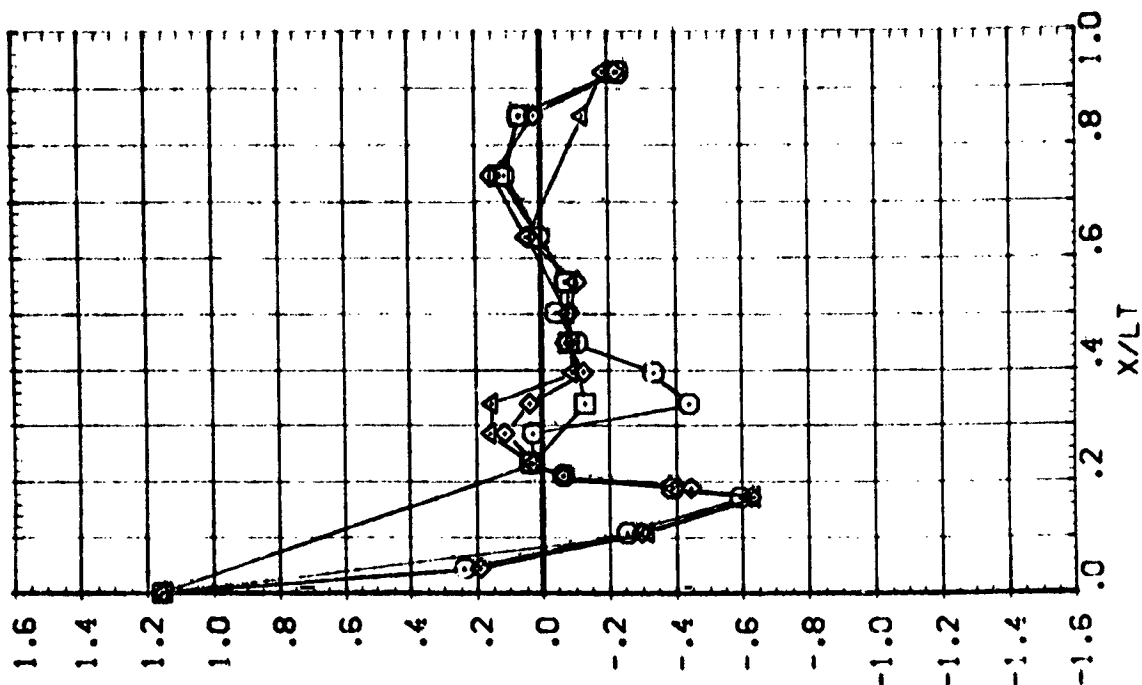
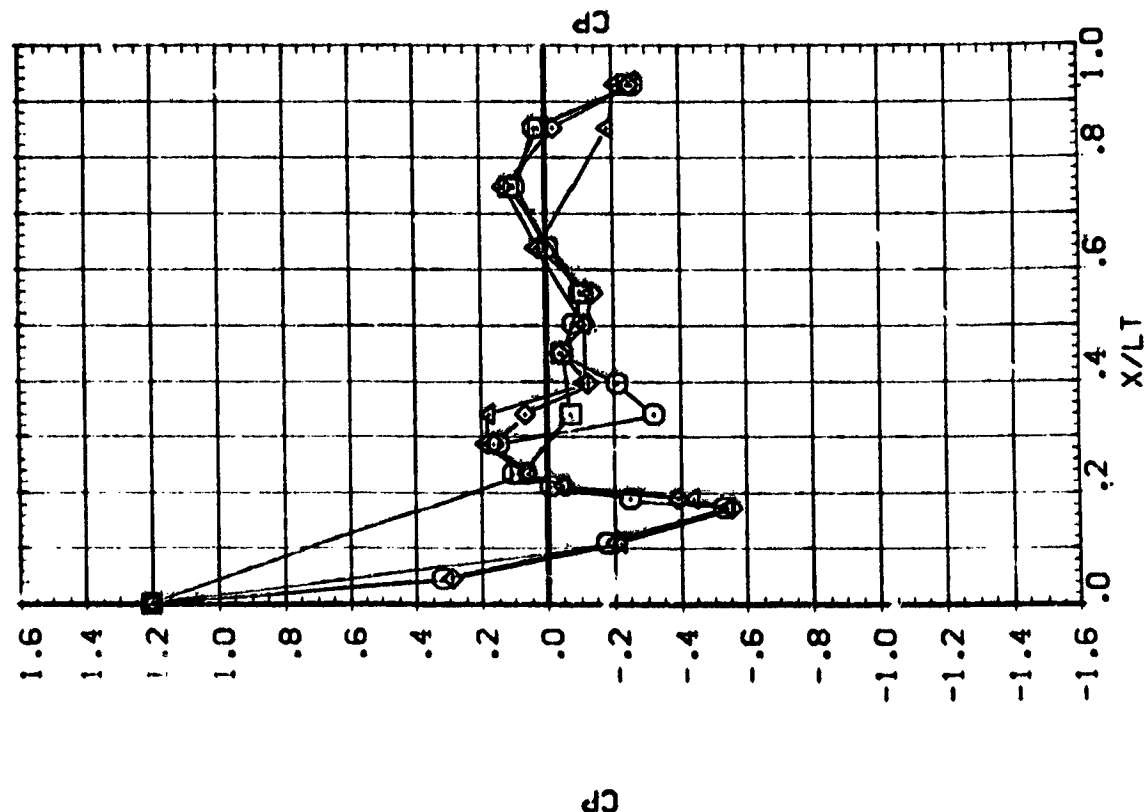
DATE	ALPHA	BETA
12-1-75	4.040	.975
12-2-75	8.020	
12-3-75		
12-4-75		
12-5-75		
12-6-75		
12-7-75		
12-8-75		
12-9-75		
12-10-75		
12-11-75		
12-12-75		
12-13-75		
12-14-75		
12-15-75		
12-16-75		
12-17-75		
12-18-75		
12-19-75		
12-20-75		
12-21-75		
12-22-75		
12-23-75		
12-24-75		
12-25-75		
12-26-75		
12-27-75		
12-28-75		
12-29-75		
12-30-75		
12-31-75		

	PARAMETRIC VALUES
BETA:	.000 DBINC
RLOOR	.000 ELEVEN
RJOFLK	.000

PARAMETRIC VALUES	
ORIGIN	.000
ELEV	.000
	.000

GEOMETRIC VALUES	
DRIBING	.000
ELEVEN	.000
	.000

GEOMETRIC VALUES	
DRIBING	.000
ELEVEN	.000
	.000



SYMBOL

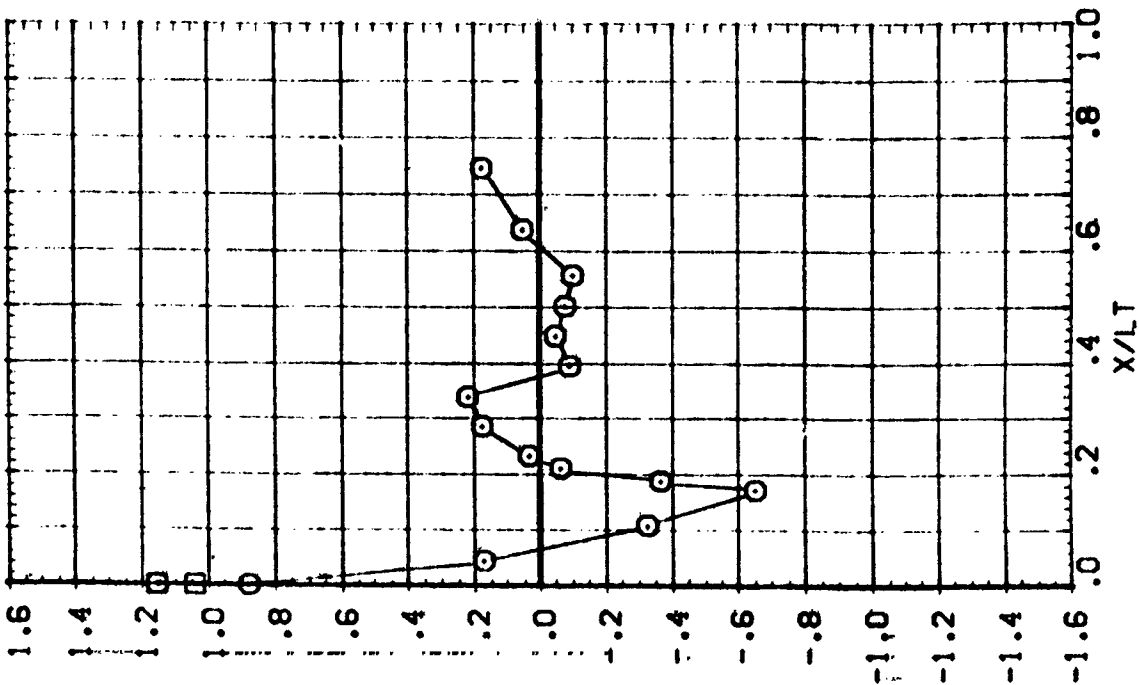
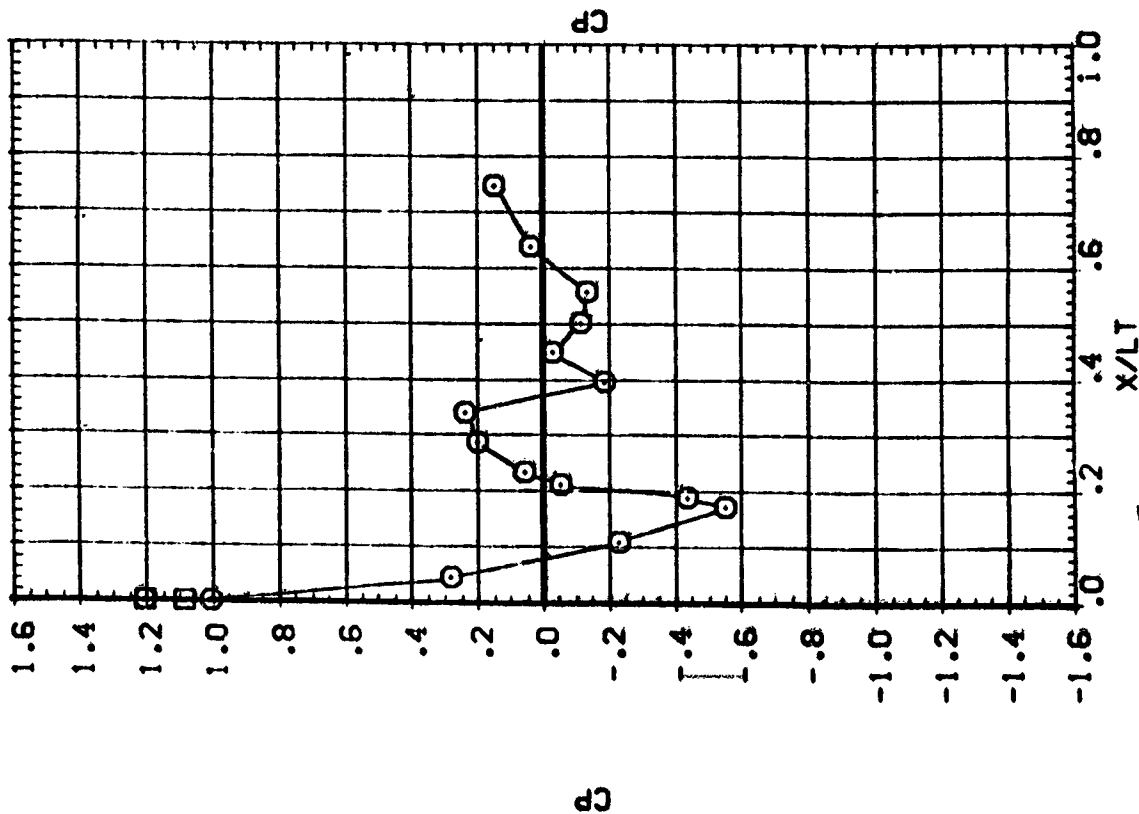
180.000
270.000

ALPHAT
4.040
8.000

MACH
.905

PARAMETRIC VALUES

BETAT .000 CRBLINC .500
RUDDER .000 ELEVON .000
RUFILR .000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

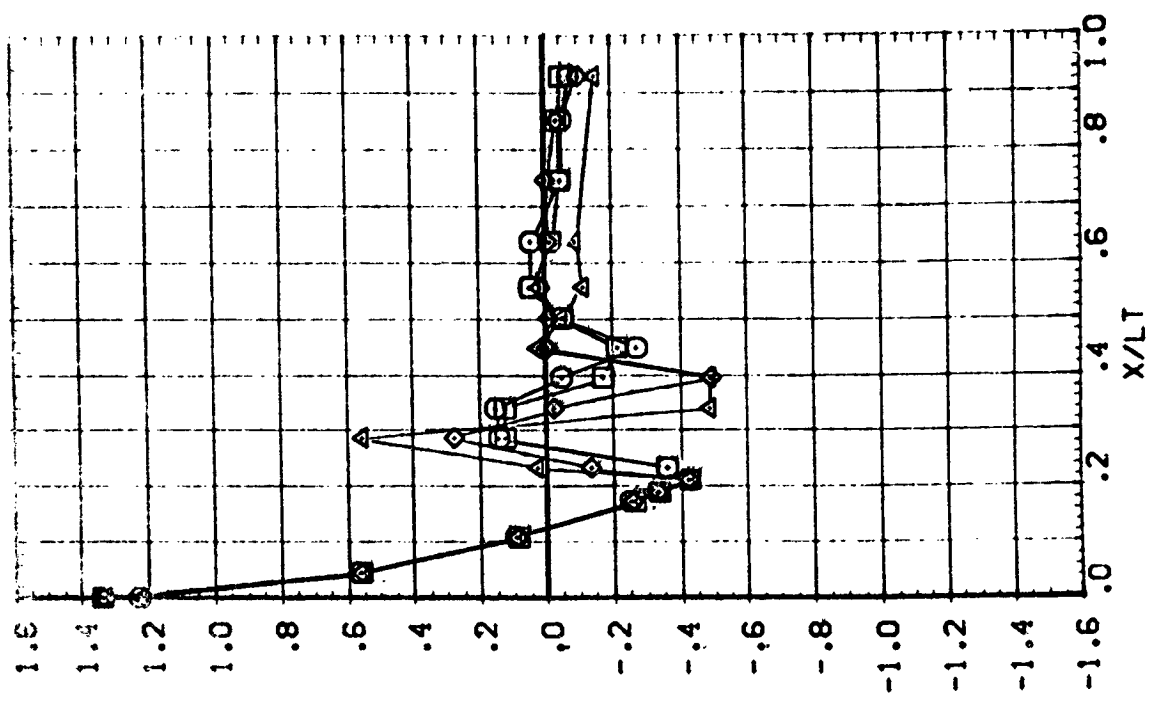
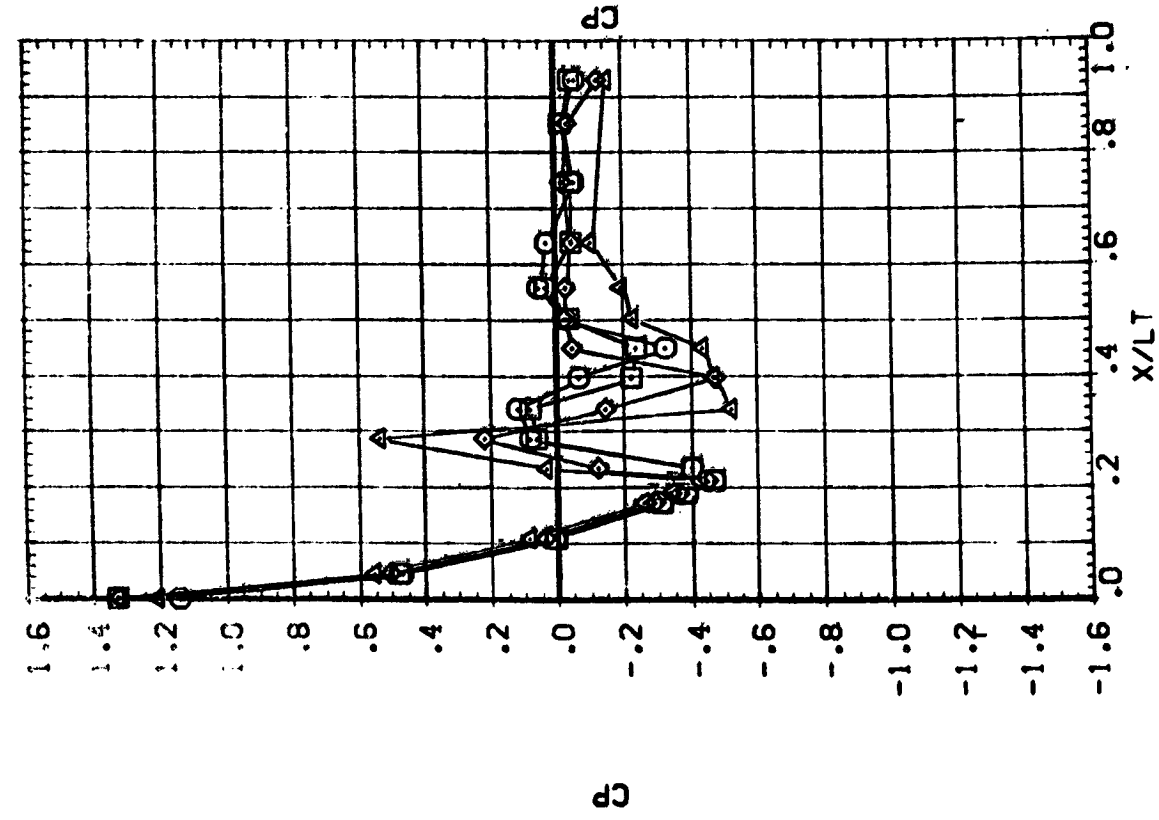
SYMBOL
 ○ □ ◇ △

PRM
 .000
 30.000
 60.000
 90.000

ALPHA
 -4.000
 -0.030

MACH
 1.132

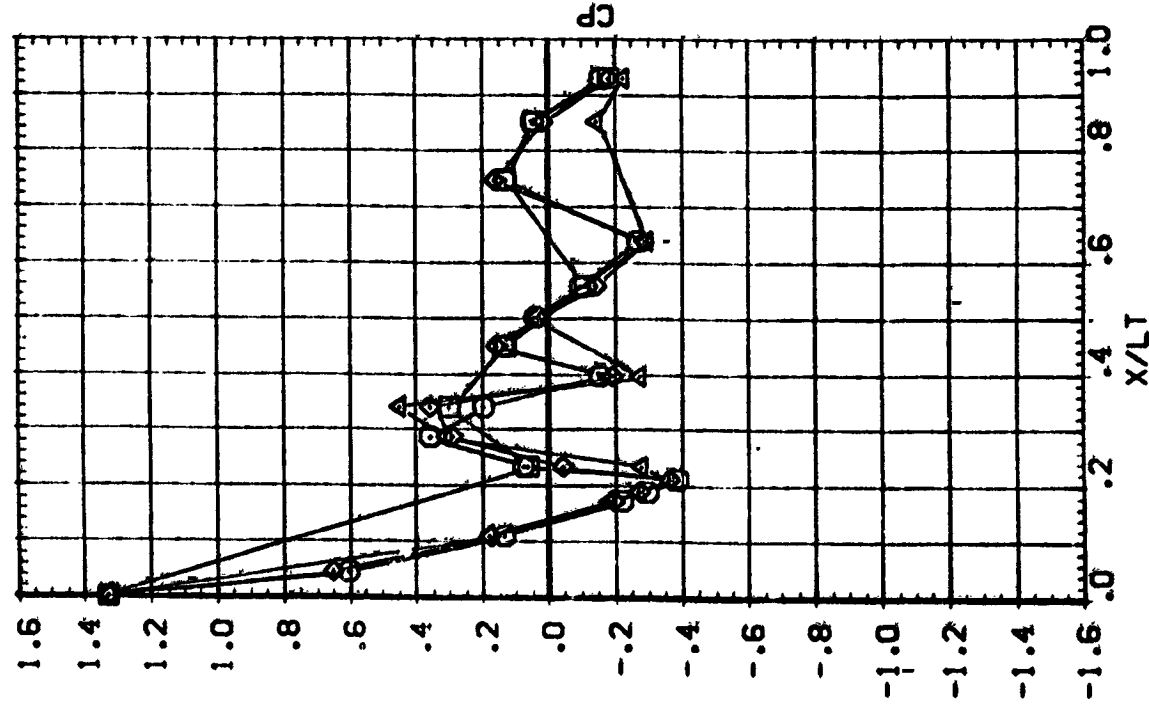
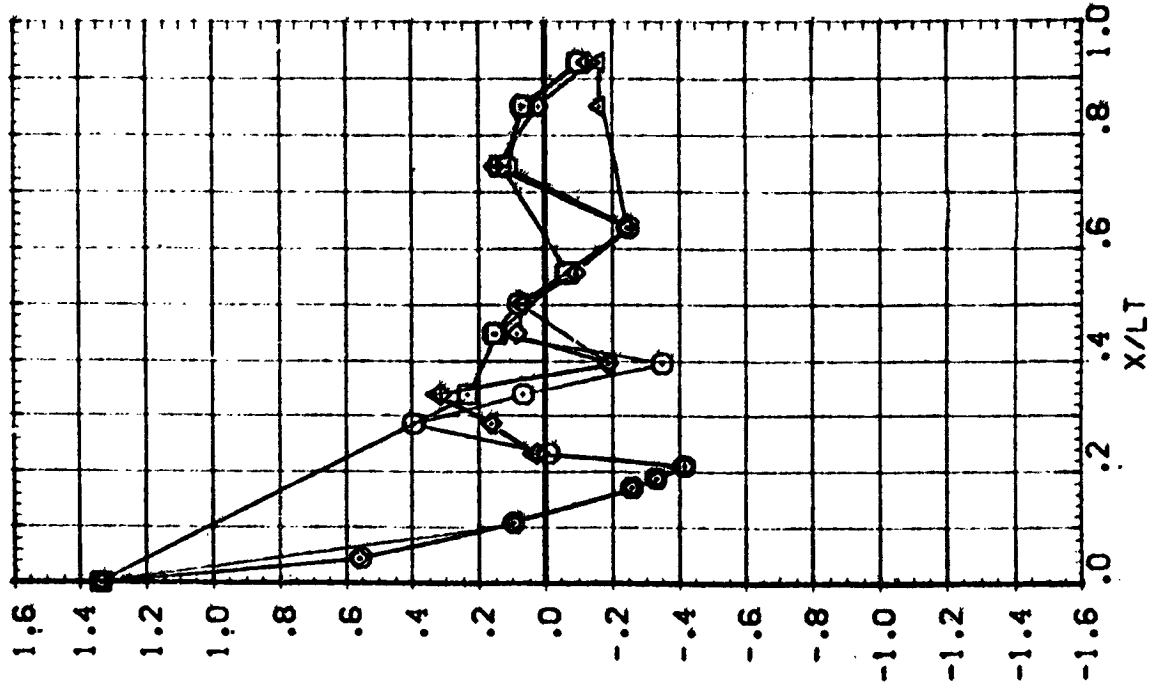
PARAMETER VALUES
 BETA .000
 RUDPR .000
 RUDFLR .000
 GRBINC .500
 ELEVON .000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

SYMBOL
 ○
 □
 ◇
 △

PARAMETRIC VALUES
 BETAT .000
 RJOER .000
 RJOFLR .000
 CRRINC .500
 ELEVON .000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

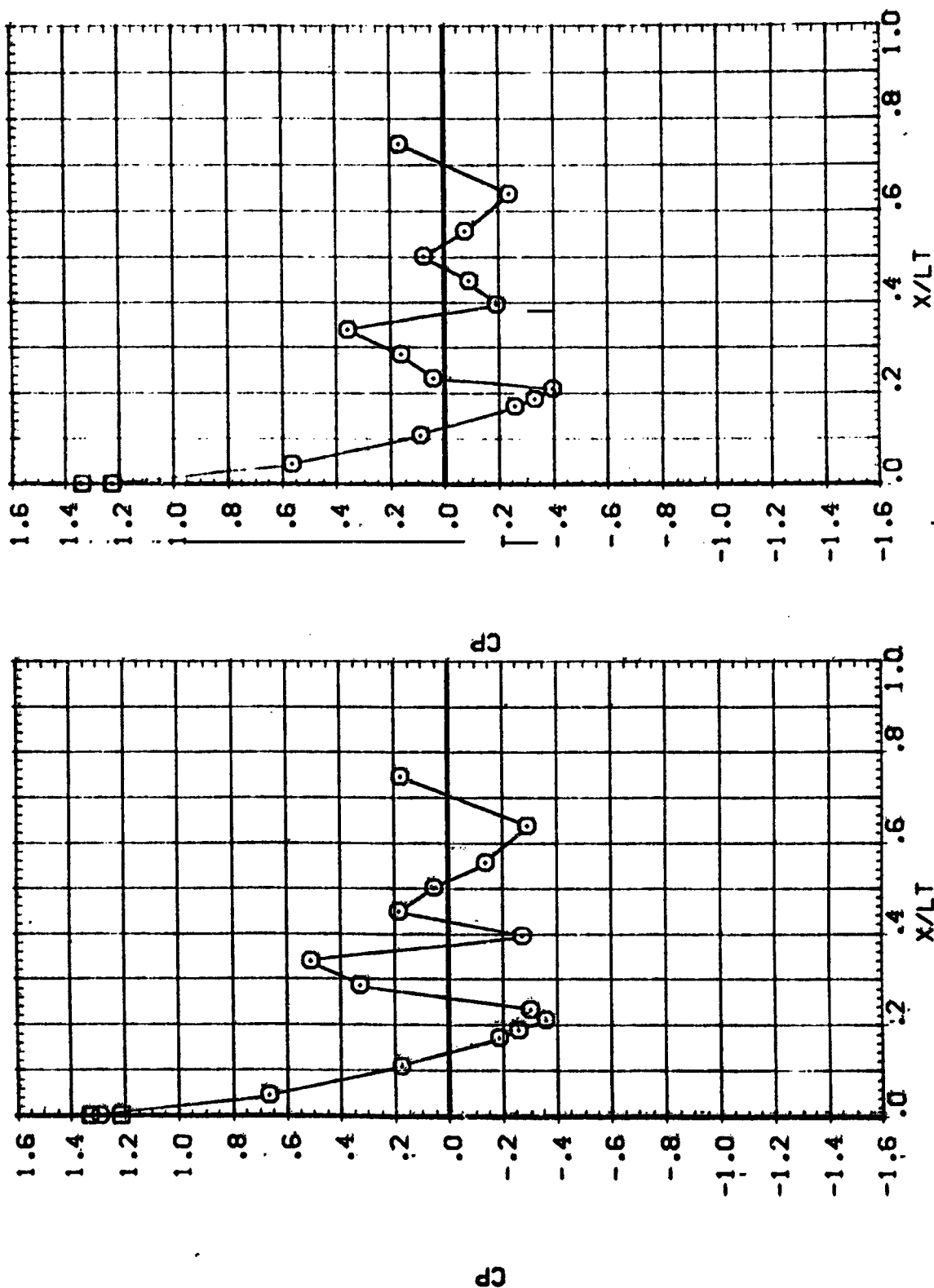


AMES 11-707 1A9 Q2A + S3 + T9 EXTERNAL TANK (RBMT02)

SYMBOL
○
□

PHI 180.000
270.000
ALPHAT -4.000
-0.030
MACH 1.102

PARAMETRIC VALUES
BETAT .000 ORBINC .500
RUDDER .000 ELEVON .000
RUOFLR .000

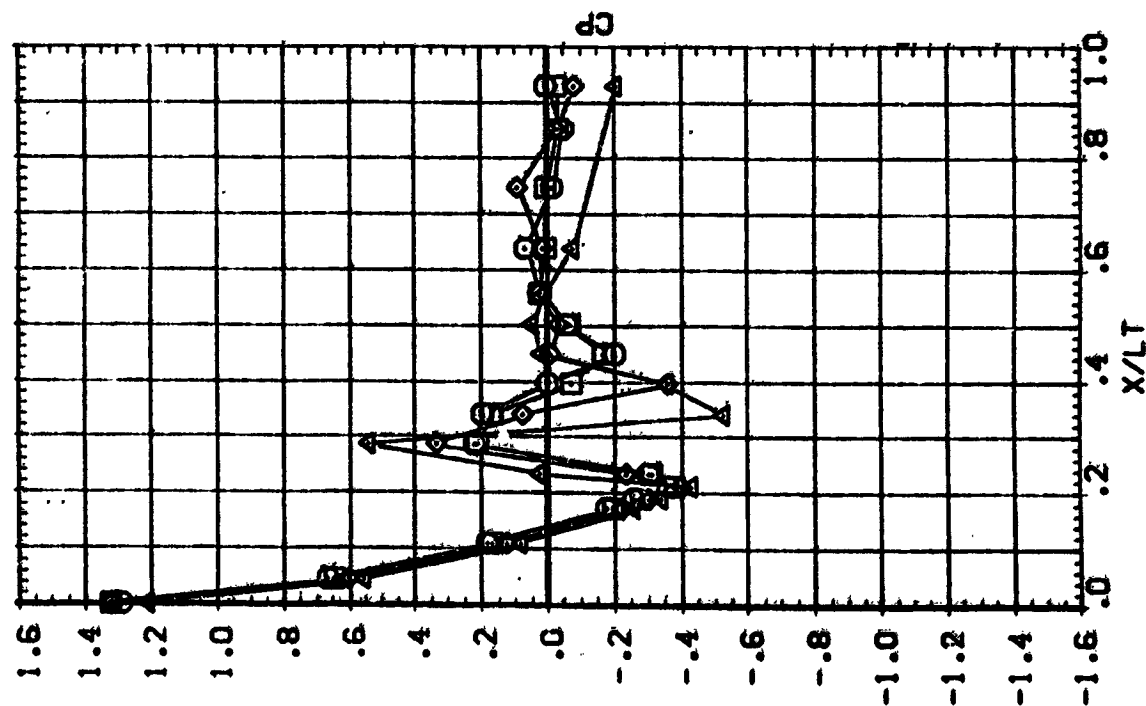
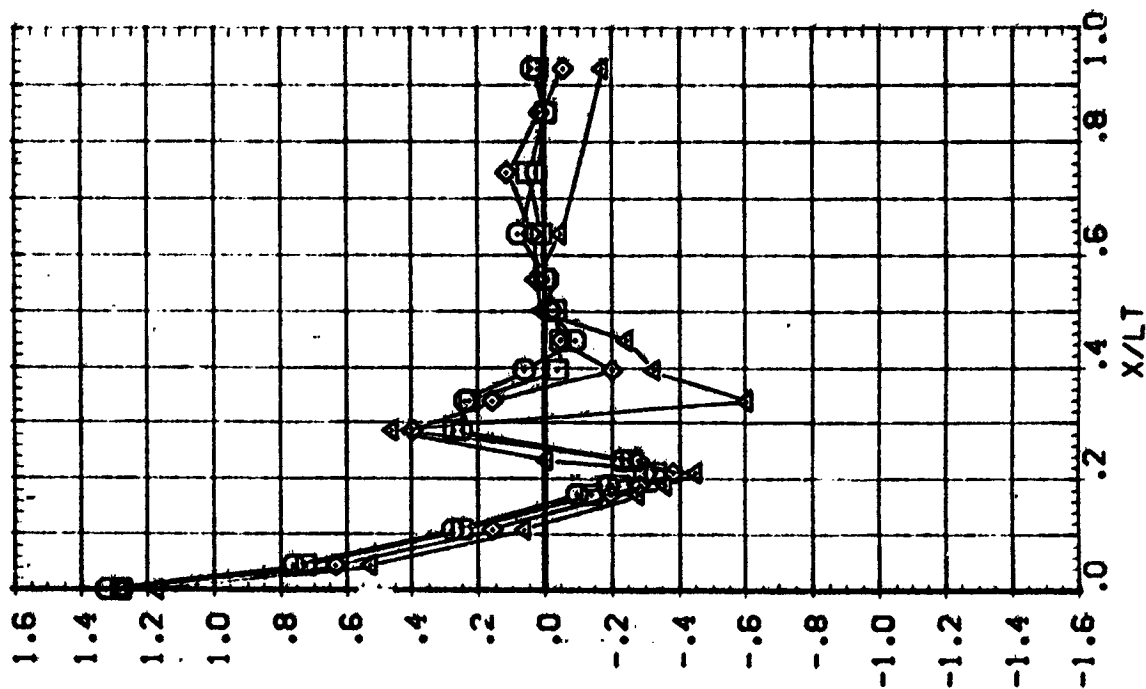


LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

PARAMETRIC VALUES
 .000 .000 .500
 .000 .000 .000
 .000 .000 .000

BETAT
 RUDDER
 RUFELR

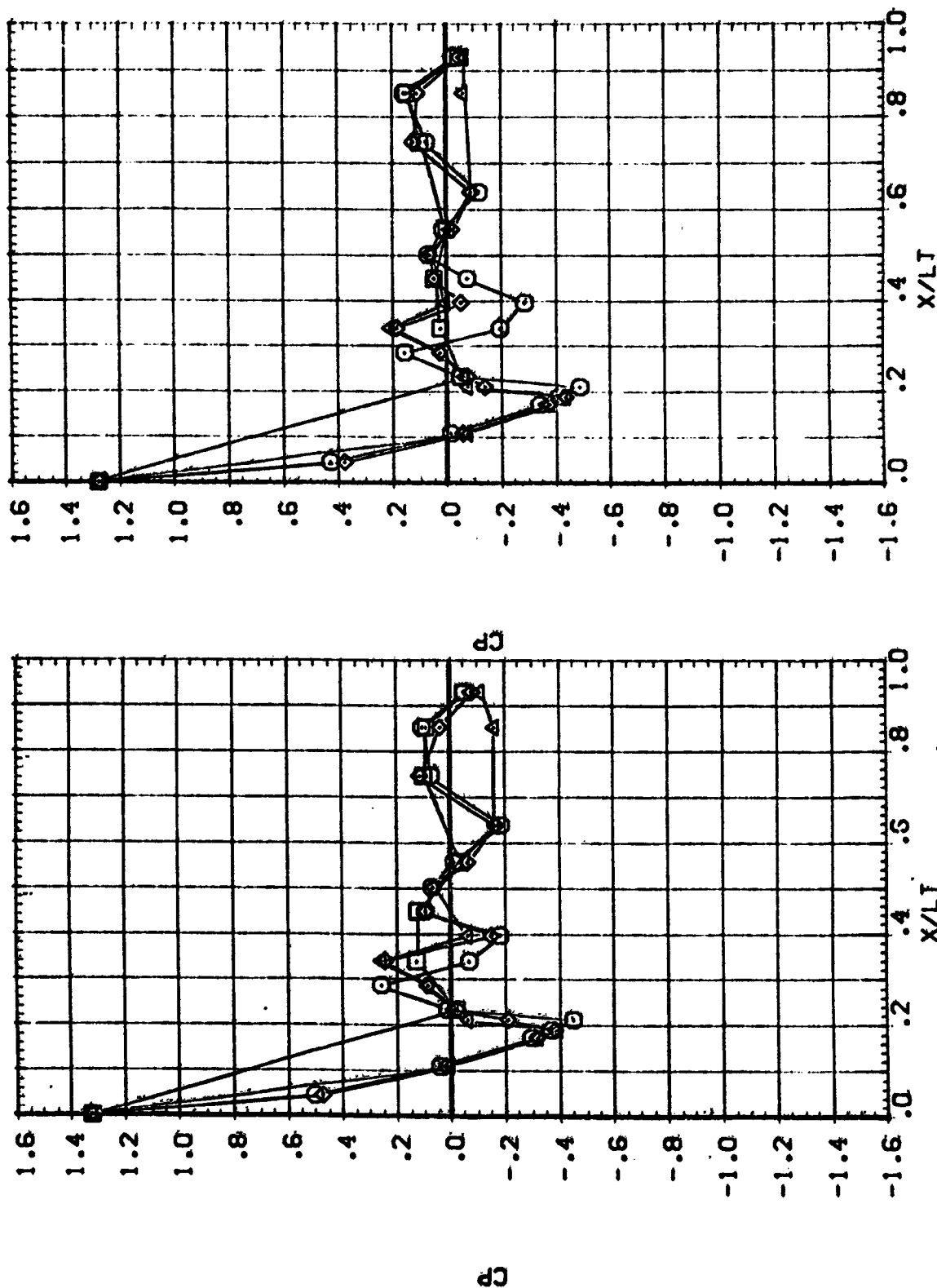
SYMBOL PNI ALPHAT MACH
 .000 3.980 1.102
 30.000 7.940
 60.000
 90.000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 11-707 I A9 02A + S3 + T9 EXTERNAL TANK (RBMT02)

PHI	ALPHAT	MACH	PARAMETRIC VALUES	
120.000	3.980	1.102	BETAT	.000
135.000	7.940		RJDER	.000
150.000			RJFLR	.000
165.000				.000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 11-707 1A9 02A + S3 + 18 EXTERNAL TANK (RBMT02)

SYMBOL

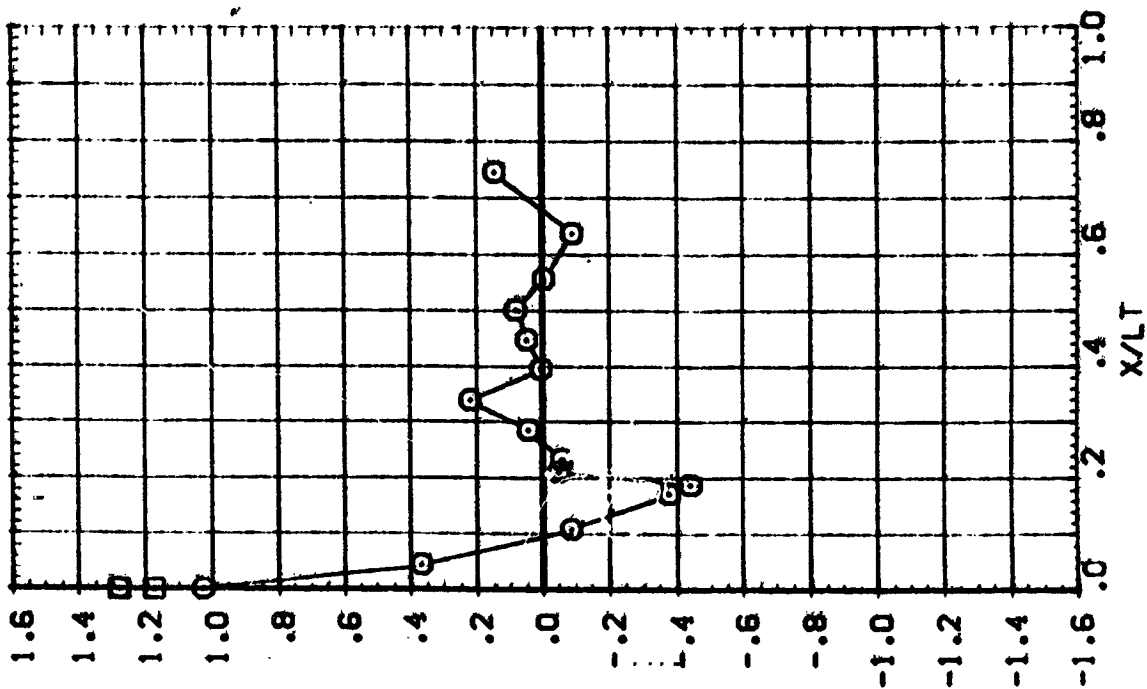
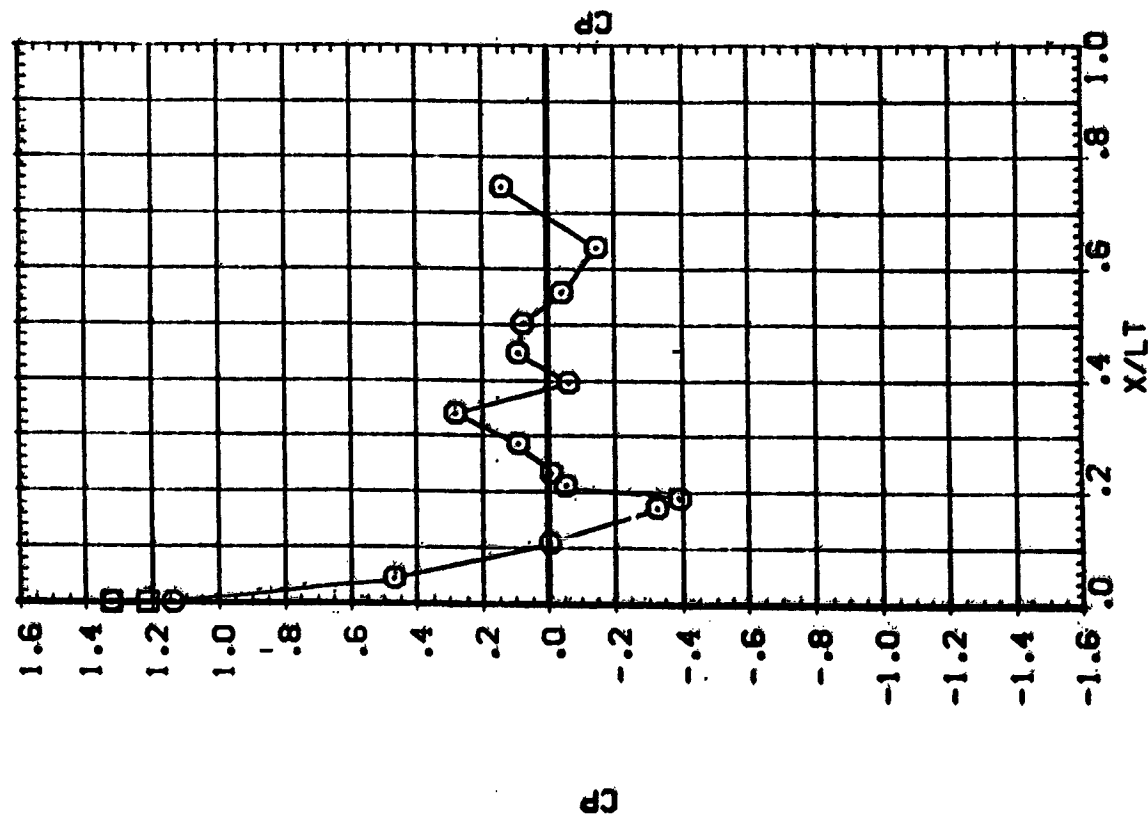
PHI
180.000
270.000

ALPHAT
3.980
7.940

MACH
1.102

PARAMETRIC VALUES
BETAT
R00ER
R00ELR

.000
.000
.000
ORBITAL
ELEVON
.500
.000

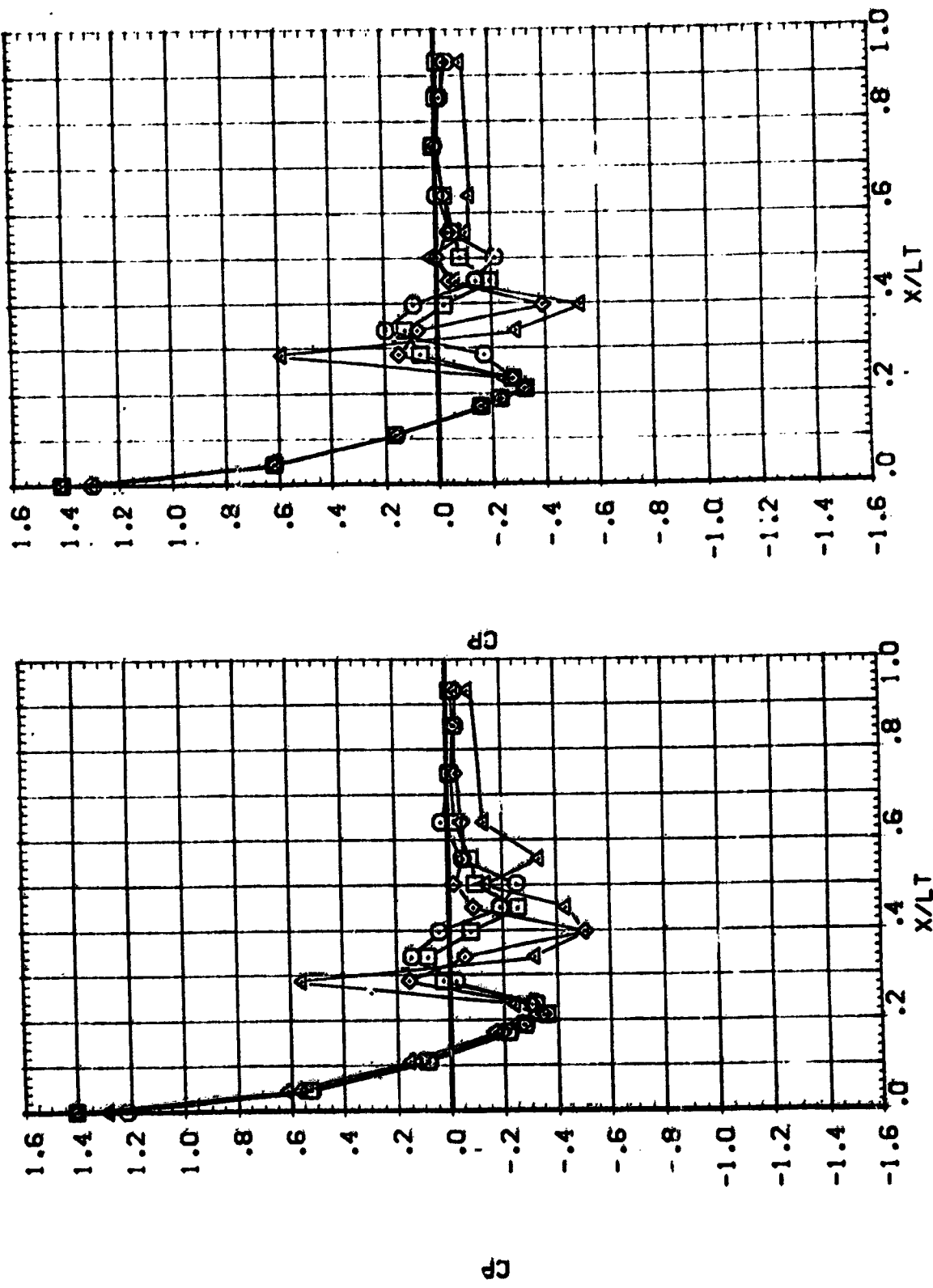


LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES



AMES 11-707 1A9 02A + S3 + T9 EXTERNAL TANK (RBMT02)

SYMBOL	P-N	ALPHA	MACH	PARAMETRIC VALUES			
				BETAT	ORBNIC	ELEVON	
○	.000	-3.880	1.249	.000	.000	.000	
□	30.000	.040		.000	.000	.000	
◇	60.000						
△	90.000						



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES



AMES 11-707 :A9 C2A + S3 + T9 EXTERNAL TANK (RBMT02)

SYMBOL

□ ◇ △

PMI

120.000
135.000
150.000
165.000

ALPHAT

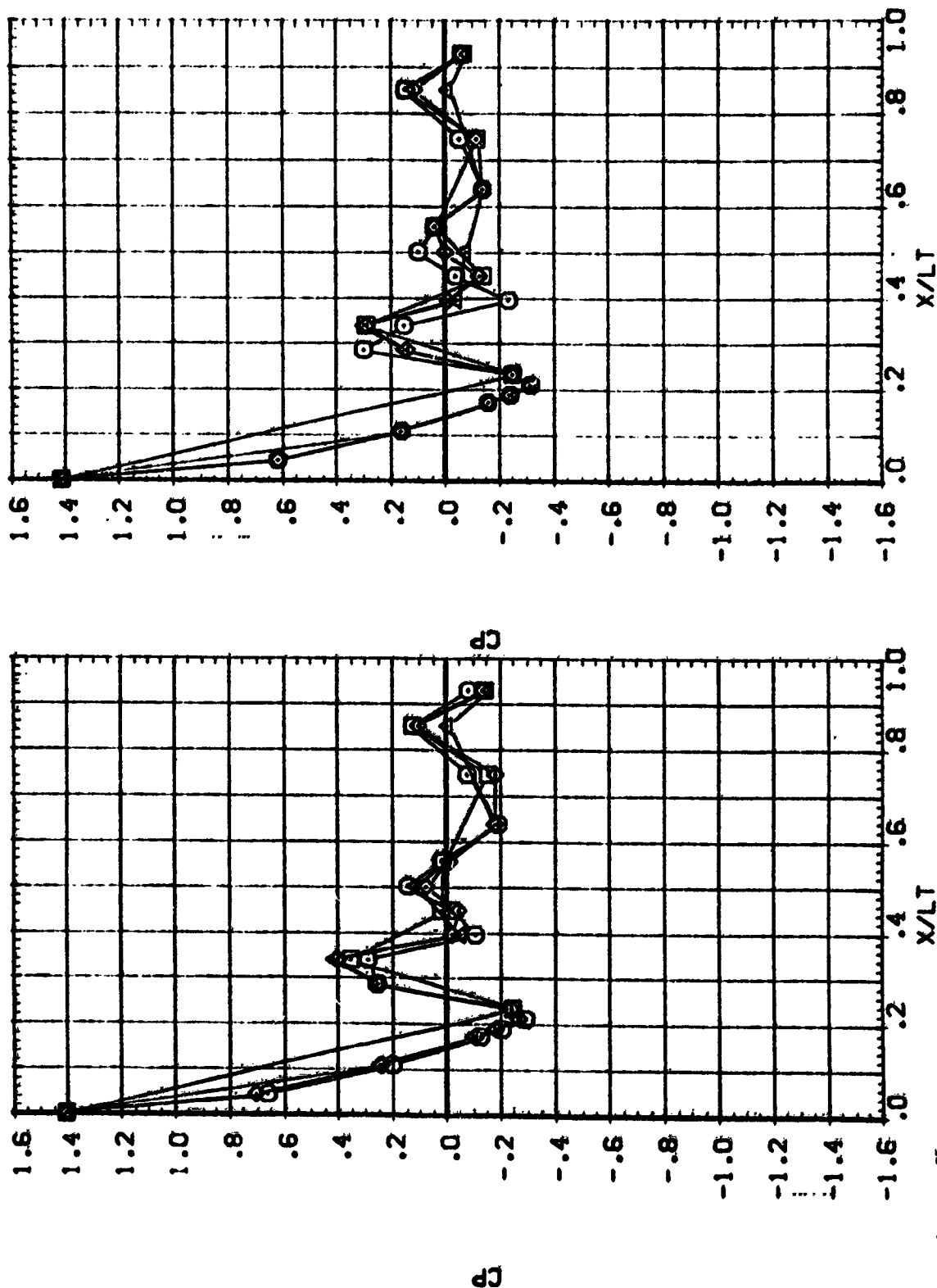
-3.980
.040

MACH

1.249

PARAMETRIC VALUES

BETAT .000 DRBINC .500
RUDDER .000 ELEVON .000
RUOFLR .000

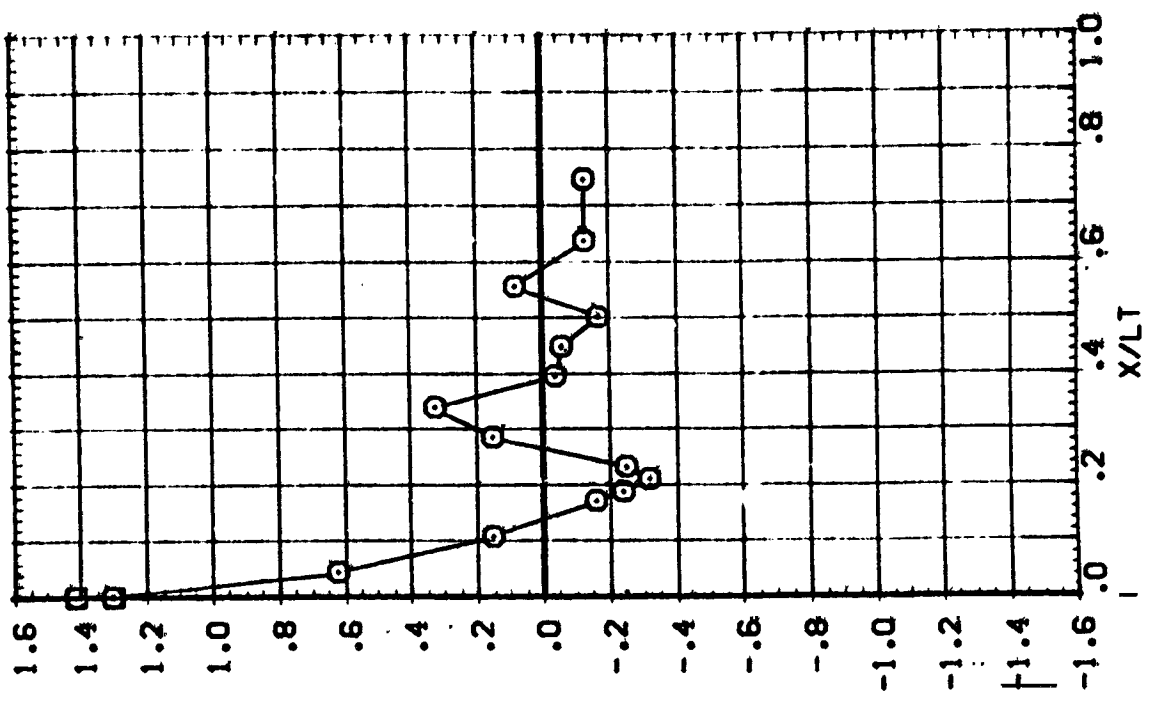
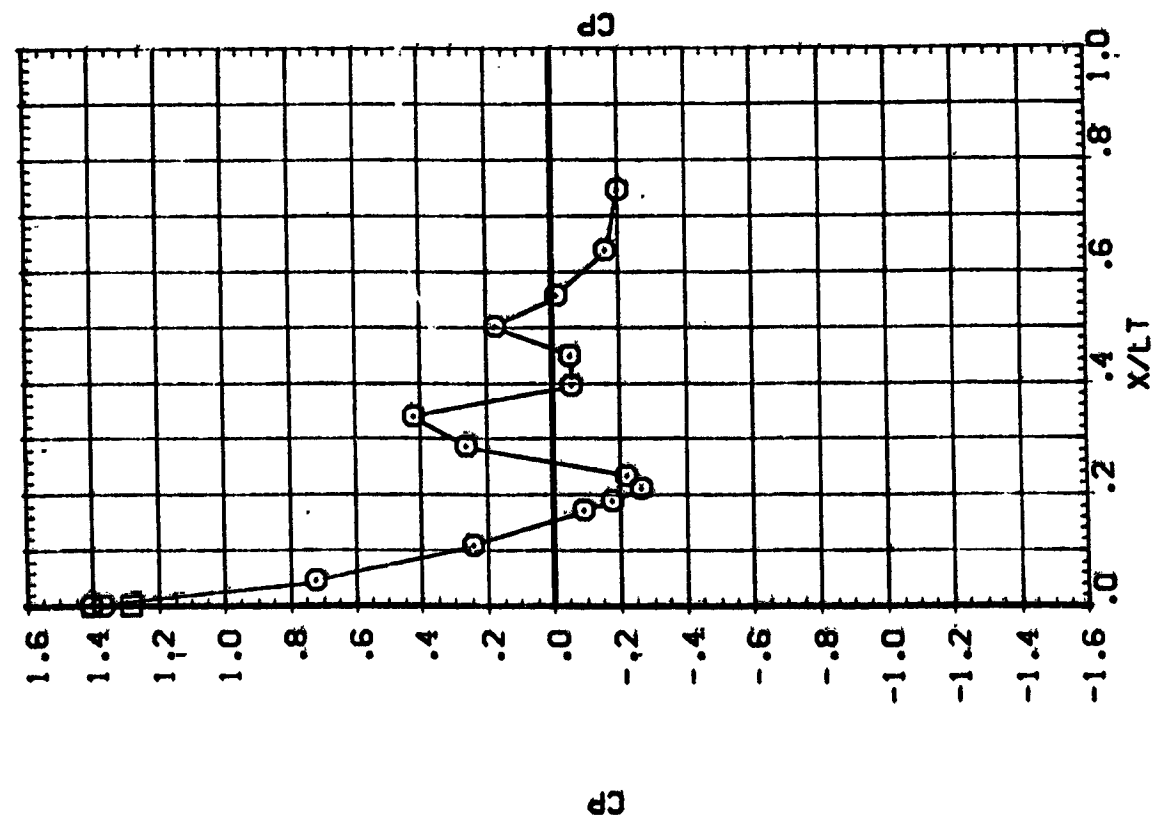


LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES



AMES 11-707 1A9 02A + S3 + T9 EXTERNAL TANK (RBMT02)

SYMBOL	PHI	ALPHA	MACH	BETAT	RJODER	RJODFLR	PARAMETRIC VALUES
<input type="checkbox"/>	180.000	-3.980	1.249	.000	.000	.000	.000
<input type="checkbox"/>	270.000	.040		.000	.000	.000	.000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 11-707 IAG 02A + S3 + T9 EXTERNAL TANK (RBMT02)

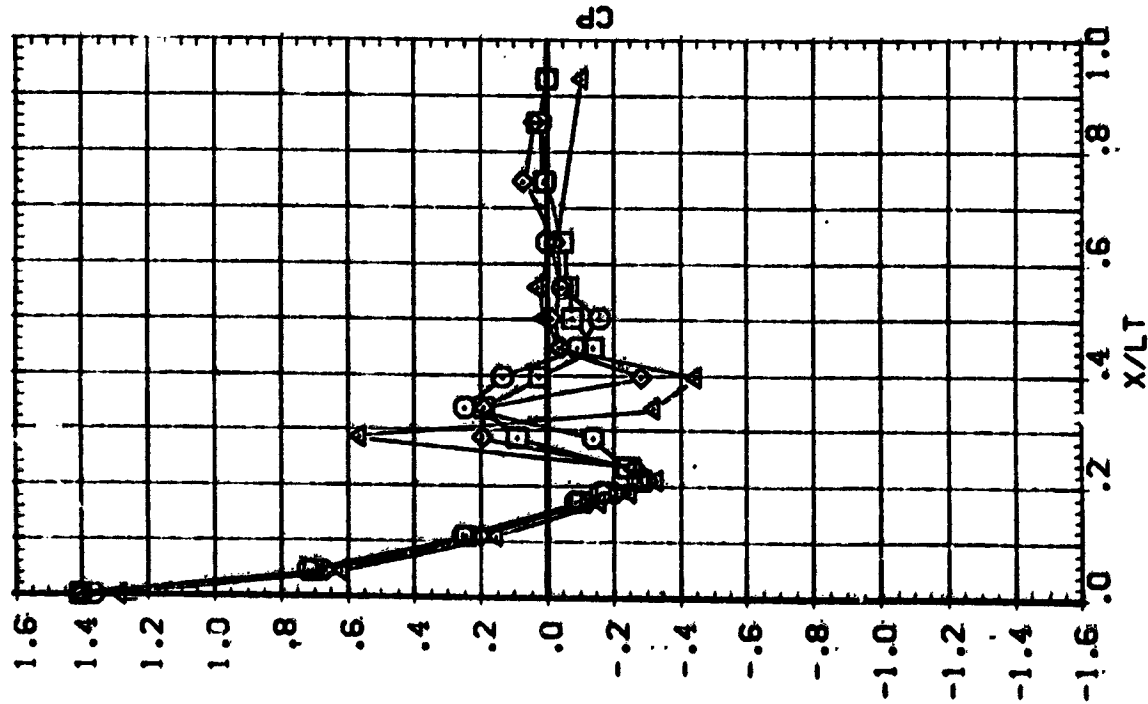
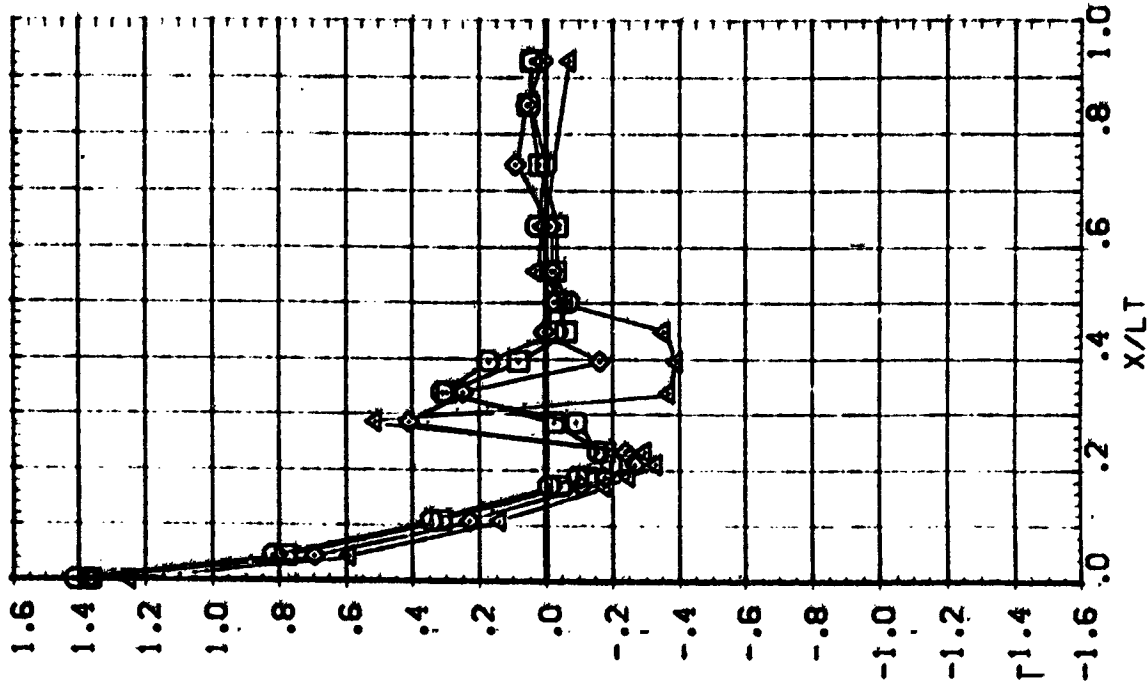
SYMBOL
□ □ ◇ △

PHI .000
30.000
60.000
90.000

ALPHA 3.970
7.980

MACH 1.245

PARAMETRIC VALUES
BETAT .000
RUDDER .000
RUELR .000
DRBINC .500
ELEVON .000



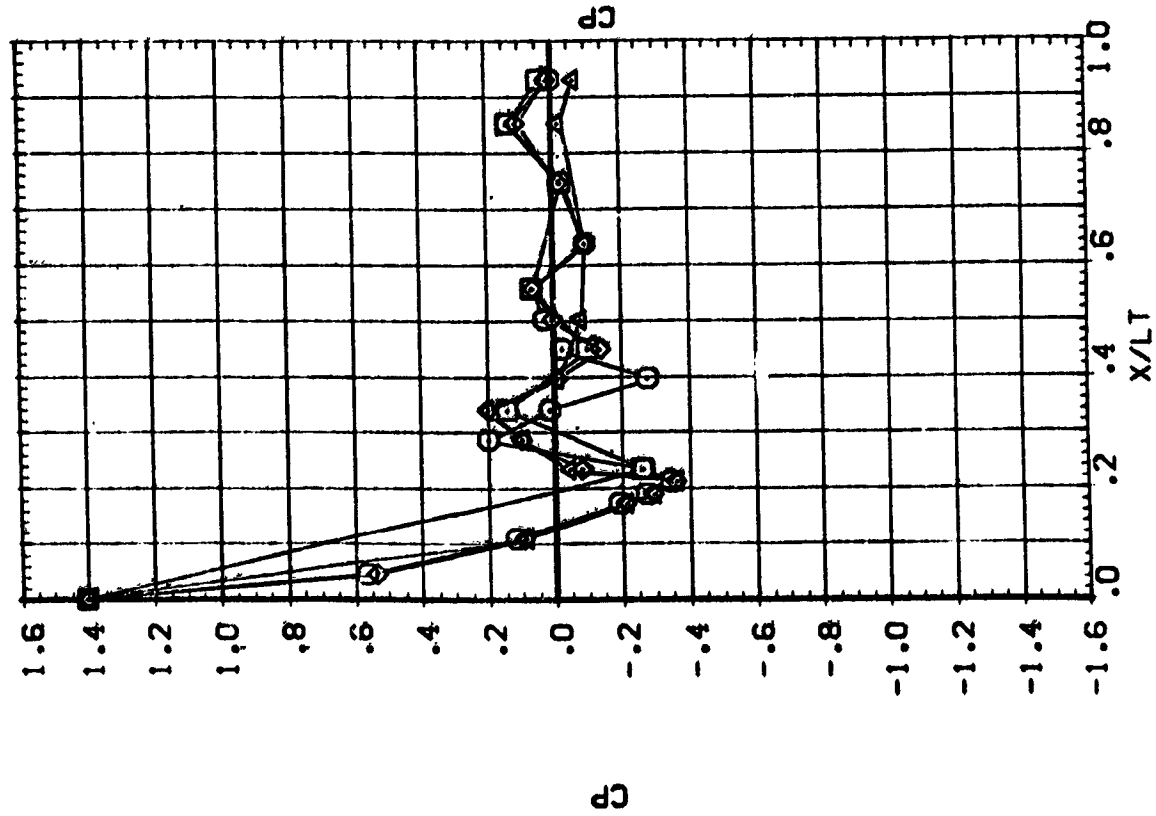
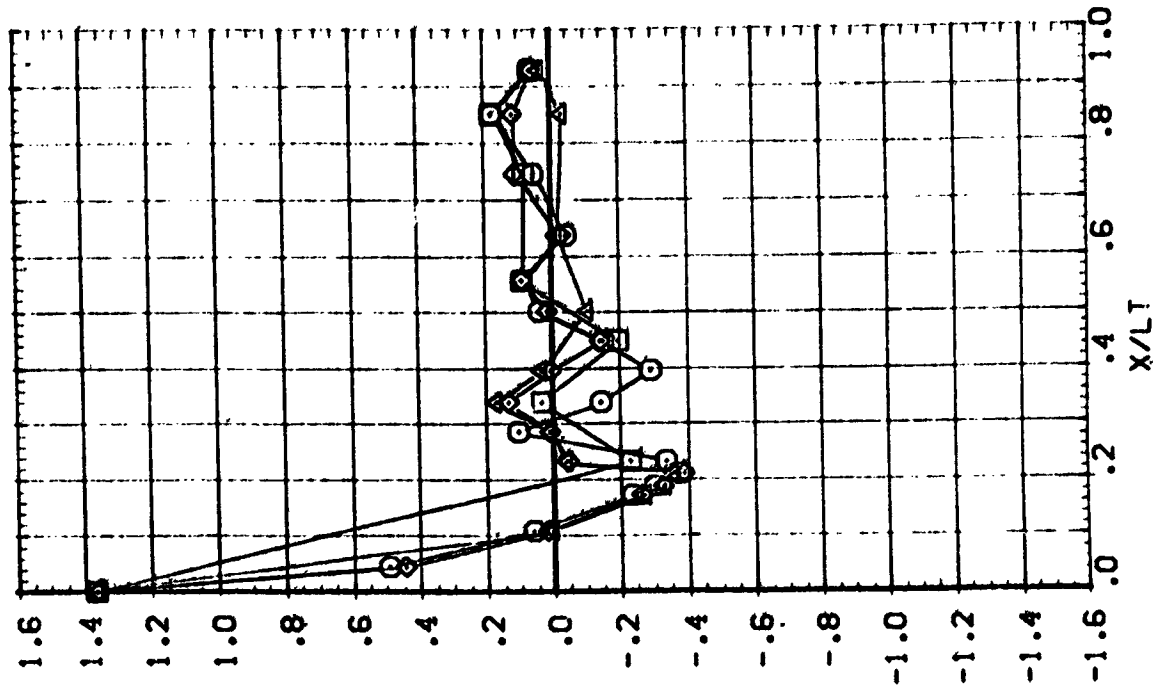
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 11-707 1A9 02A + S3 + T9 EXTERNAL TANK (RBMT02)

PARAMETRIC VALUES
 BETAT .000 ORG:INC .500
 RUDDER .000 ELEVON .000
 RUDFLR .000

PHI 120.000 MACH 1.245
 135.000 7.980
 150.000
 165.000

SYMBOL
 ○ □ ◇ △



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 11-707 1A9 02A + S3 + 19 EXTERNAL TANK (RBMT02)

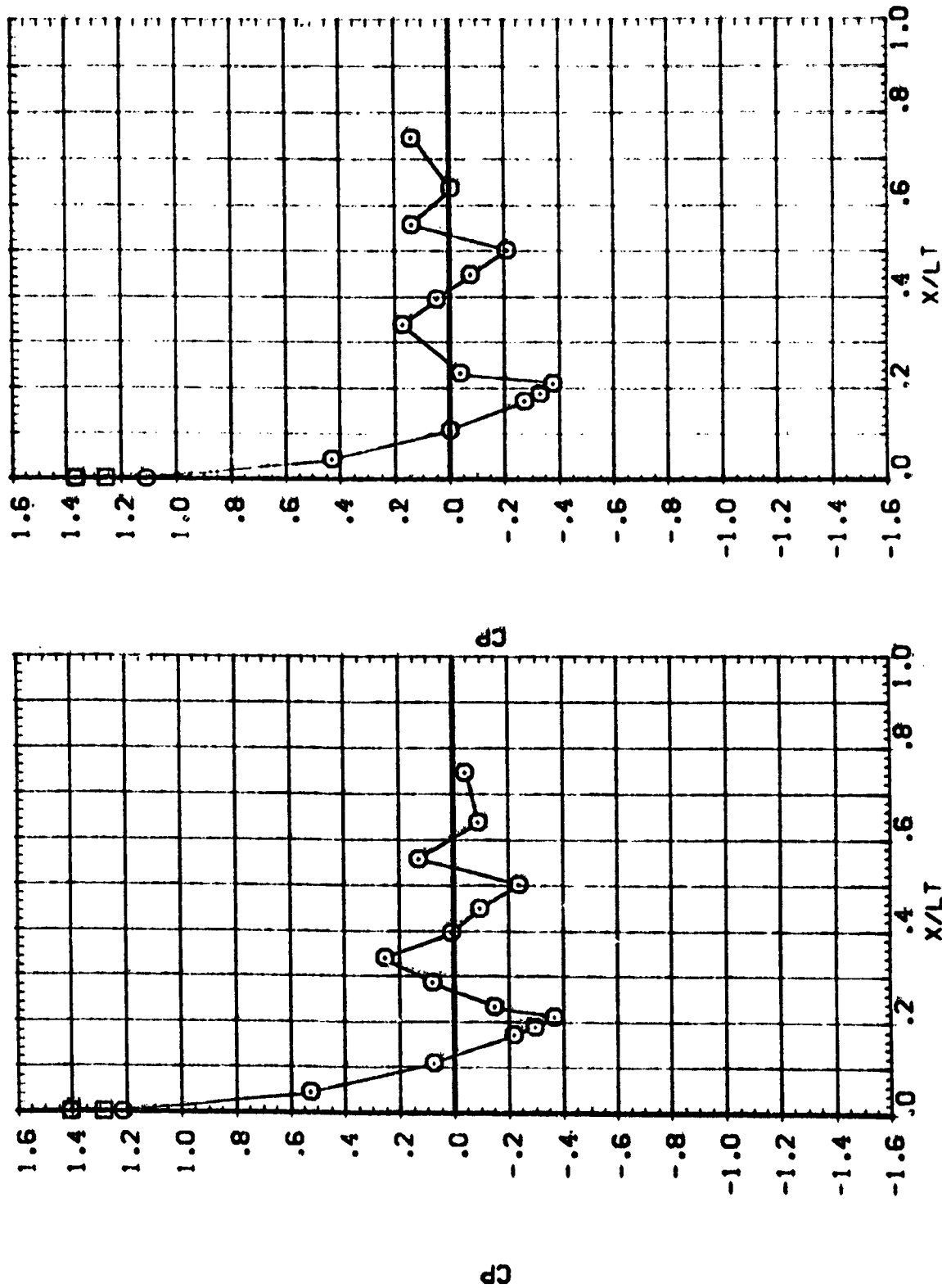
SYMBOL
O

PHI
180.000
270.000

ALPHAT
3.970
7.980

MACH
1.245

PARAMETRIC VALUES
BETAT .000
RLOOER .000
RLOFLR .000
CUBIAC .500
ELEVON .000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES



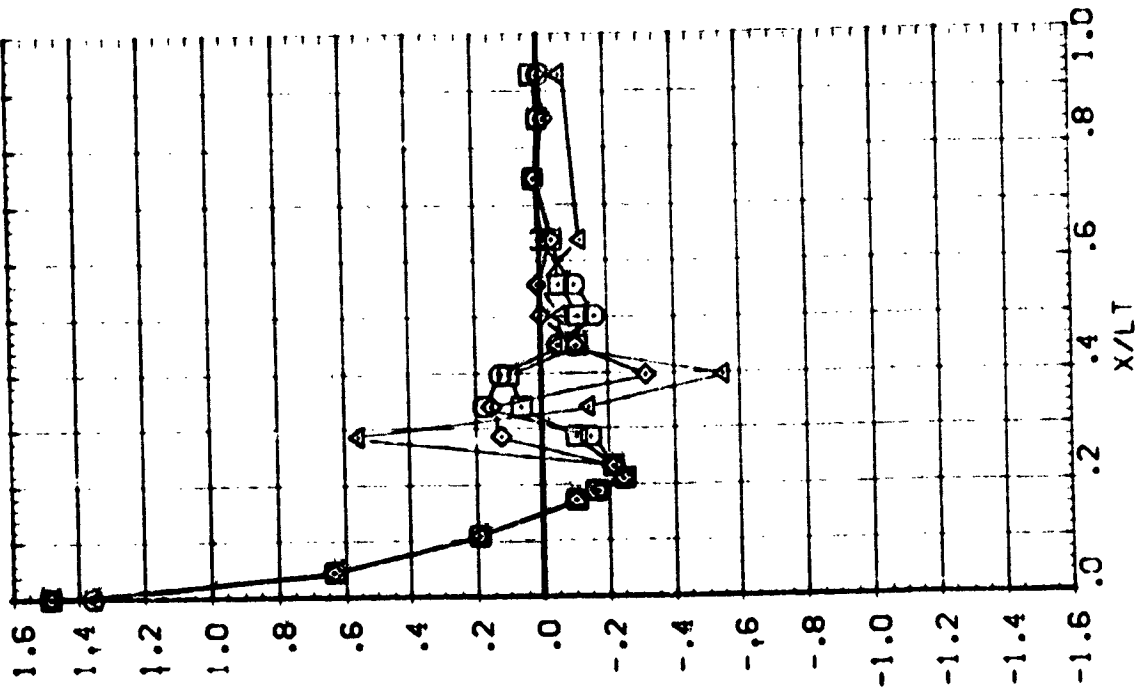
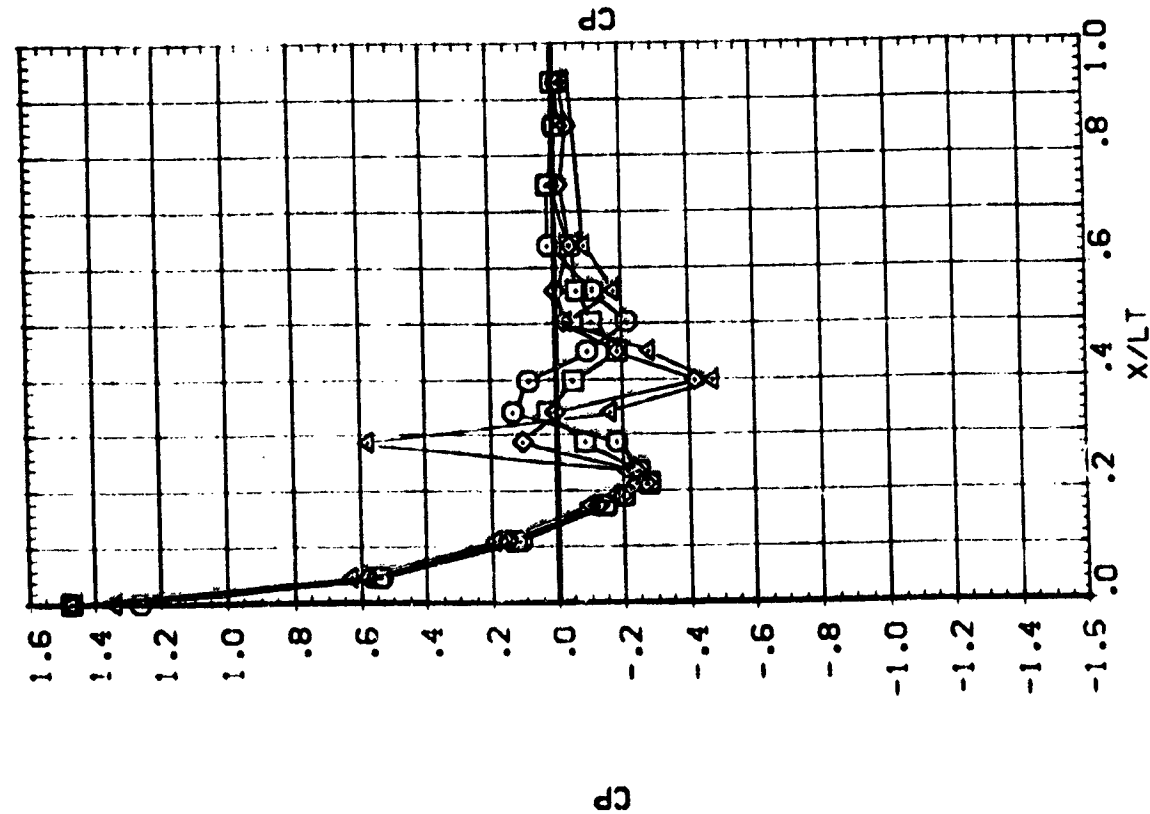
AMES 11-707 :A9 C2A + S3 + T9 EXTERNAL TANK (RBM-02)

SYMBOL
 ○ □ △

PH: .000
 30.000
 60.000
 90.000

ALPHAT -3.980
 WAC 1.356
 .040

PARAMETRIC VALUES
 BETA' .000
 RLODR .000
 RLOFLR .000
 SSBINC .500
 ELEVON .000

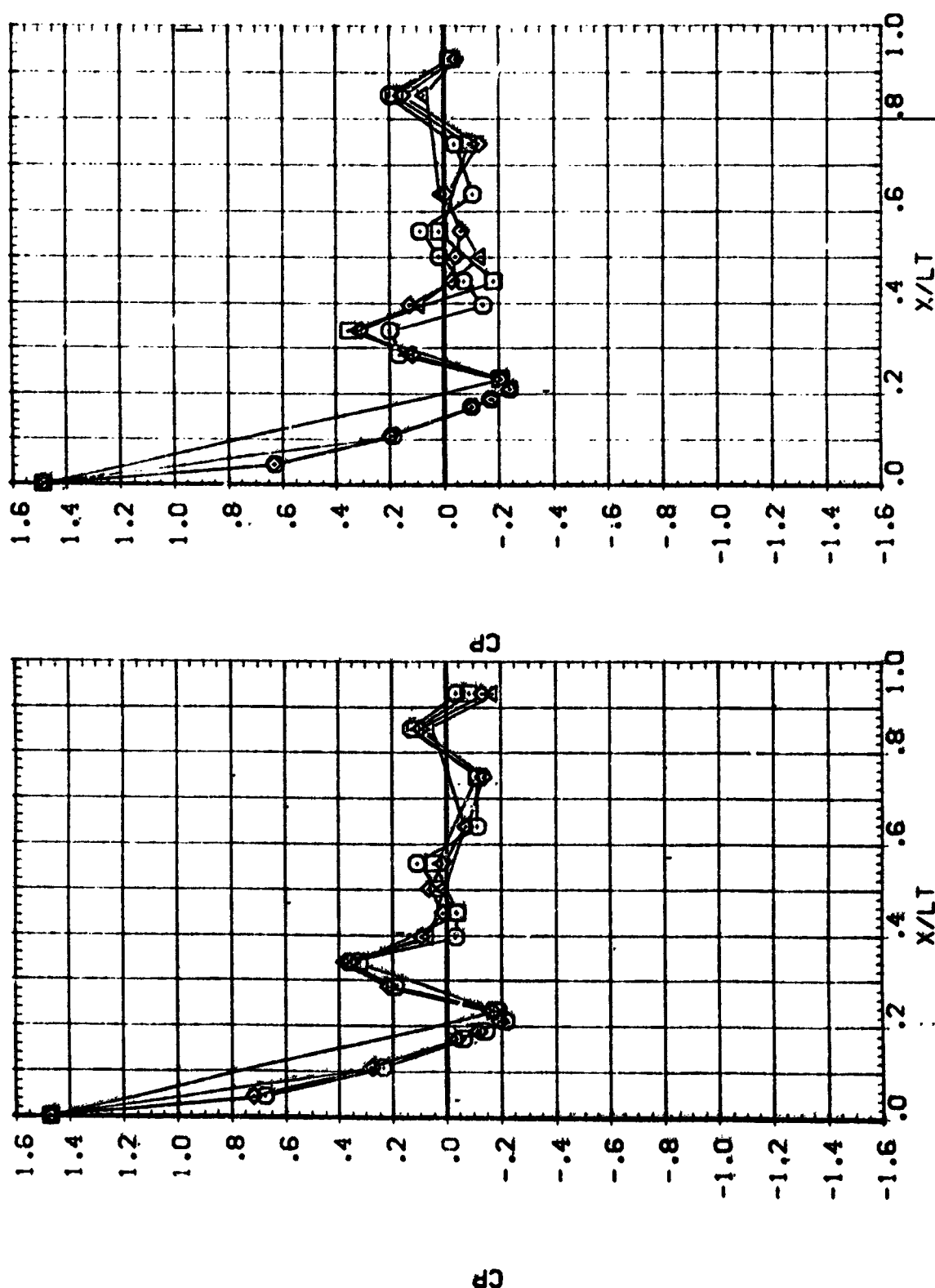


LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

SYMBOL
 ○ □ ◇ △

PHI ALPHAT MACH
 120.000 -3.980 1.396
 135.000 .040
 150.000
 165.000

PARAMETRIC VALUES
 BETAT .000 CRBINC .500
 RUDDER .000 ELEVEN .000
 RUDDLR .000

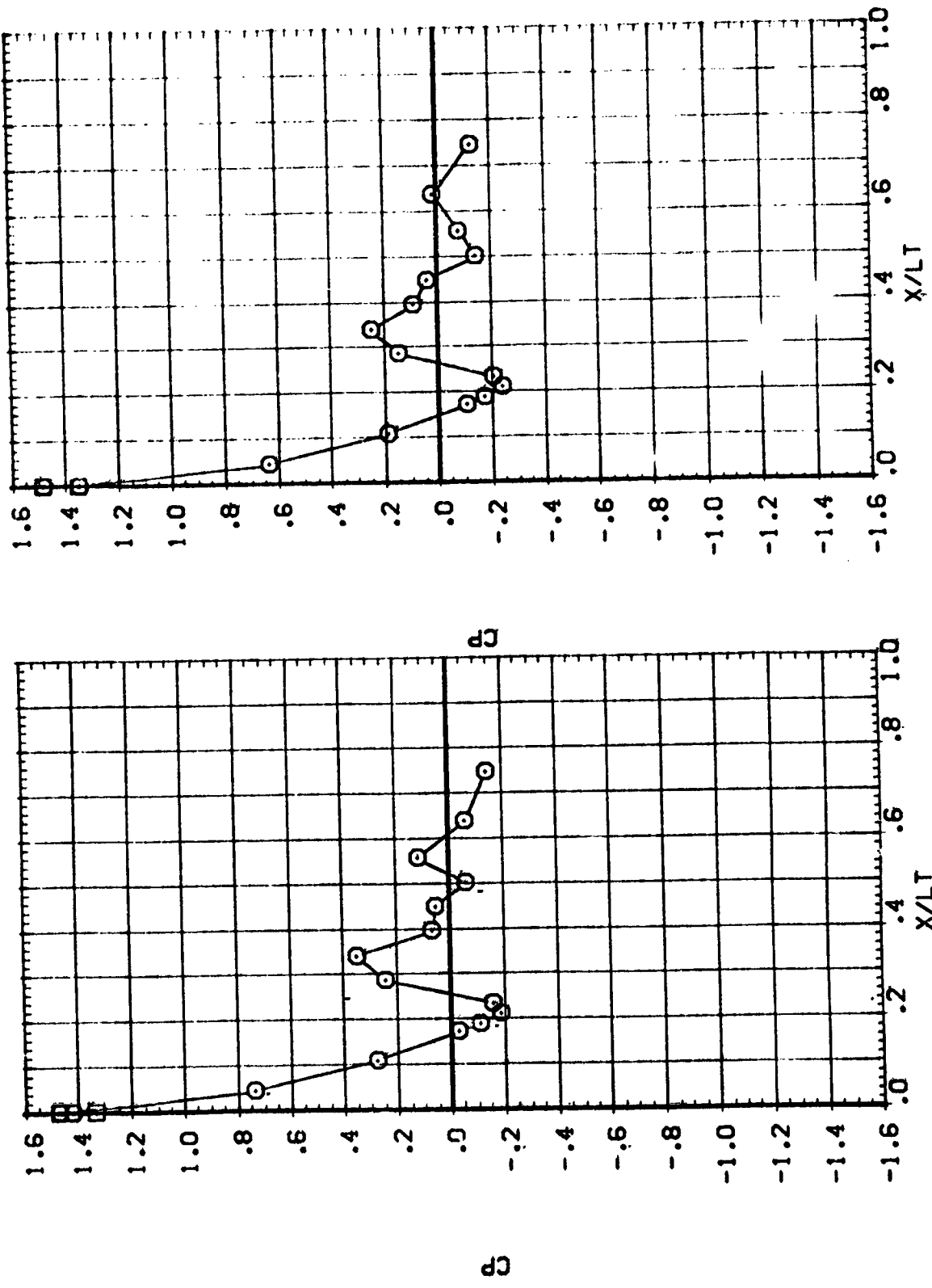


LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 11-707 :A9 02A + S3 + T9 EXTERNAL TANK (RBMT02)

SYMBOL: P-1: ALPHAT: MACH: 180.000 -3.980 1.396 270.000 .040

PARAMETRIC VALUES: BETAT: .000 PRBLNC: .500 RUDDER: .000 ELEVCH: .000 RDELRL: .000

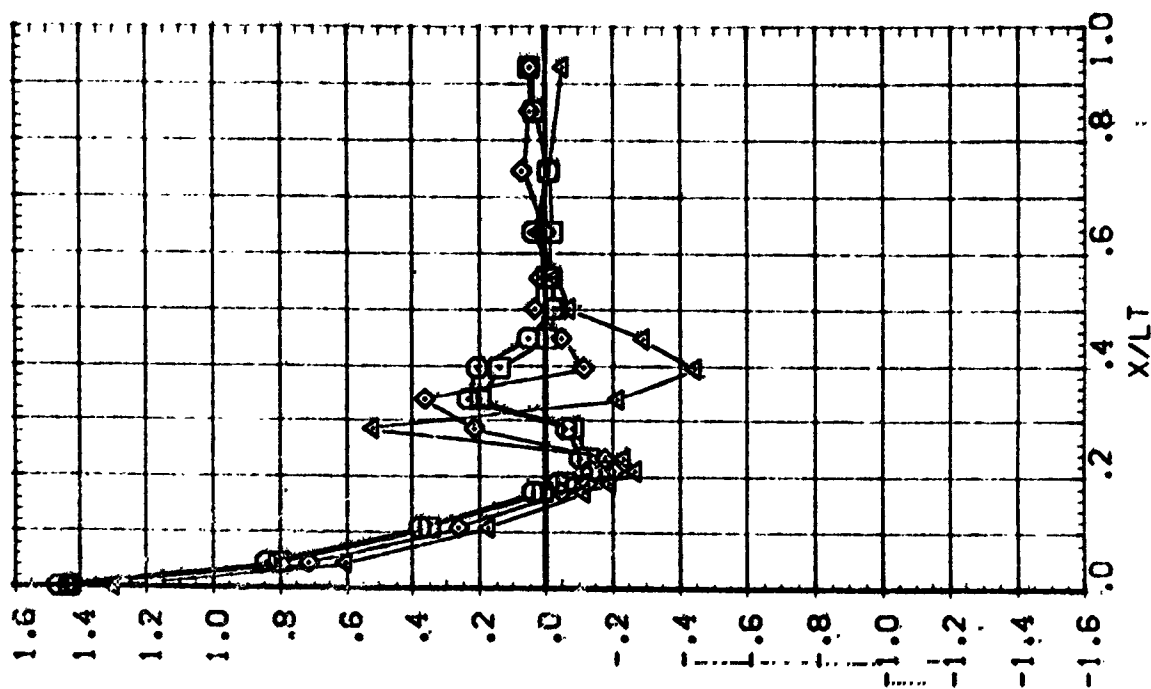
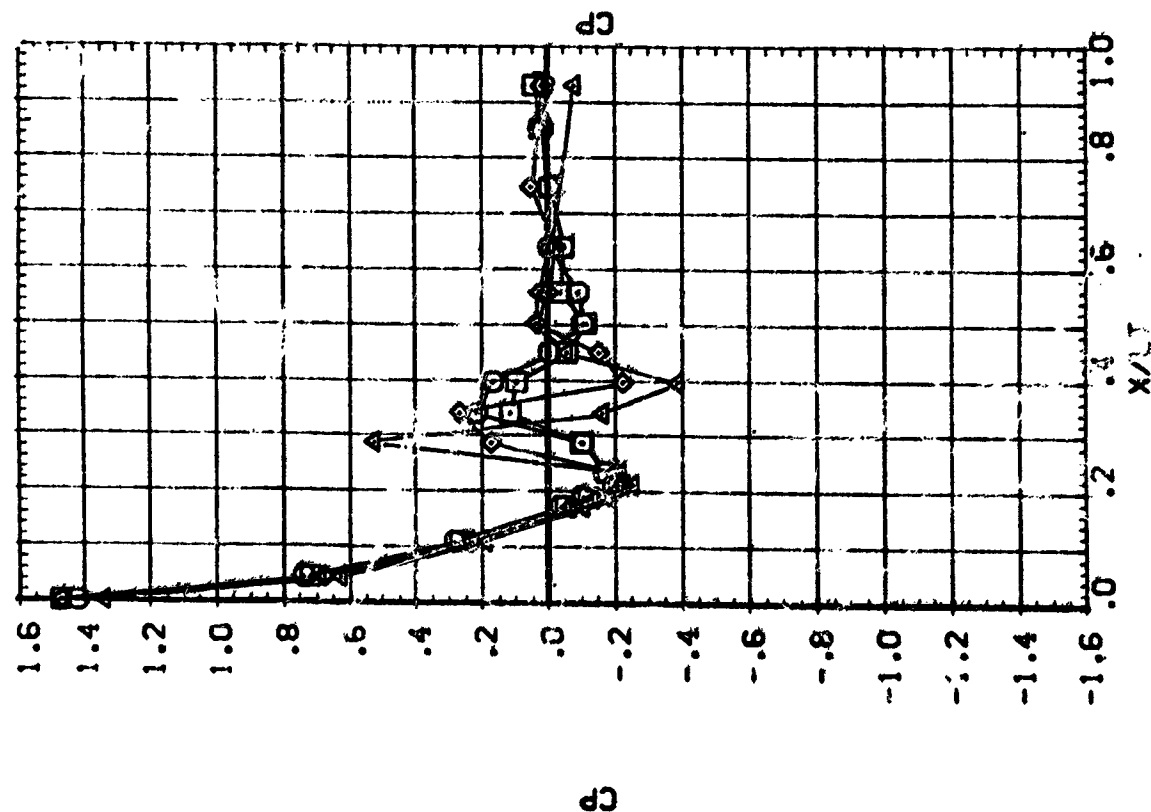


LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

SYMBOL
 ○
 □
 ◇
 △

PH: .000 30.000 60.000 90.000
 ALPHAT 3.950 7.950
 MACH 1.394

PARAMETRIC VALUES
 BETA7 .000 ORBLINC .500
 RUDER .000 ELEVON .000
 RUDFLR .000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

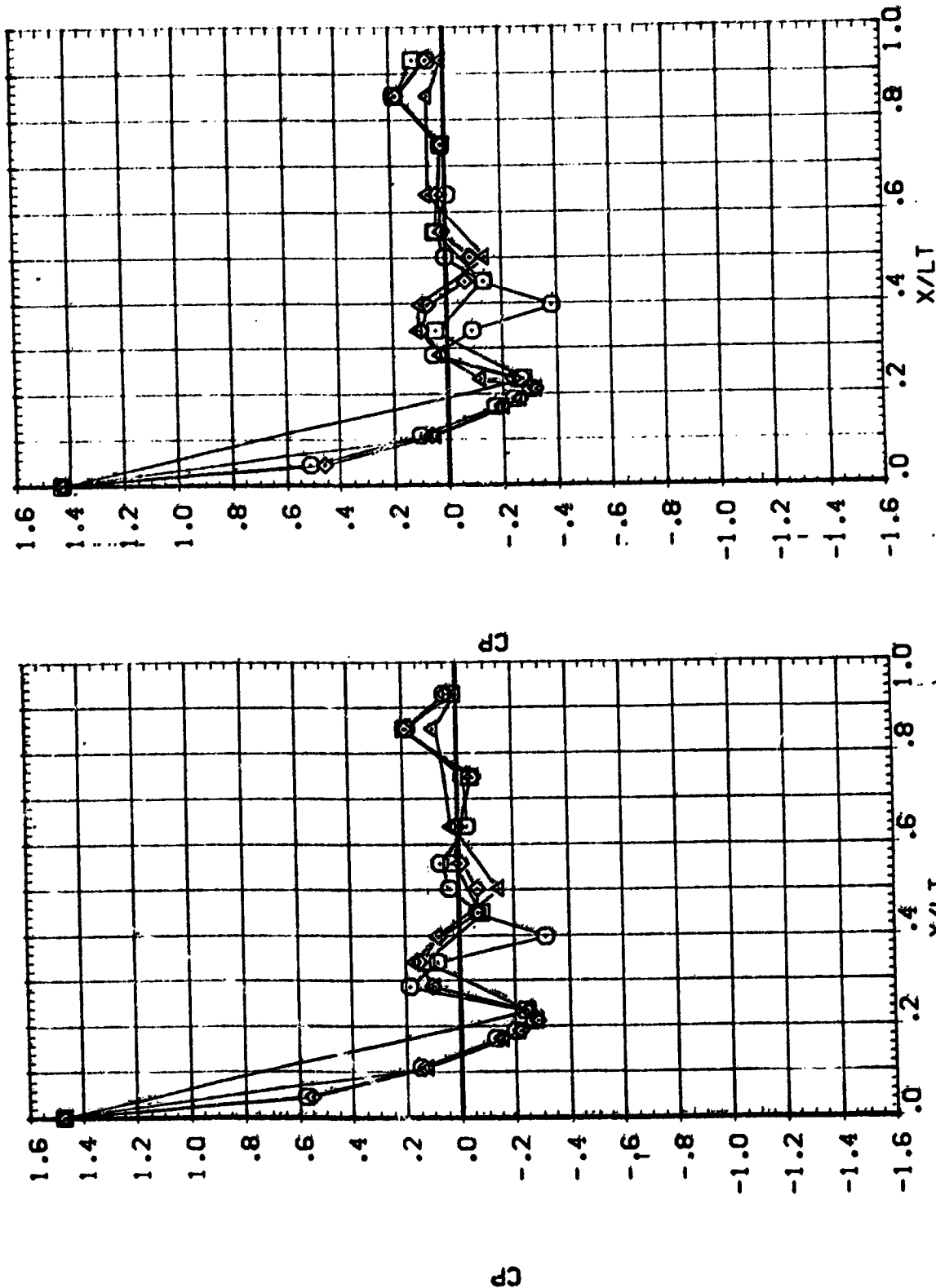
AMES 11-707 1A9 02A + S3 + T9 EXTERNAL TANK (RBMT02)

SYMBOL
 ○ □ ◇ △

PMI
 120.000
 135.000
 150.000
 165.000

ALPHAAT MAGN
 3.950 1.394
 7.950

PARAMETRIC VALUES
 BETAT .000 ORBINC .500
 RLODER .000 ELEVCH .000
 RLOFLR .000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 11-707 1A9 02A + S3 + T9 EXTERNAL TANK (RBMT02)

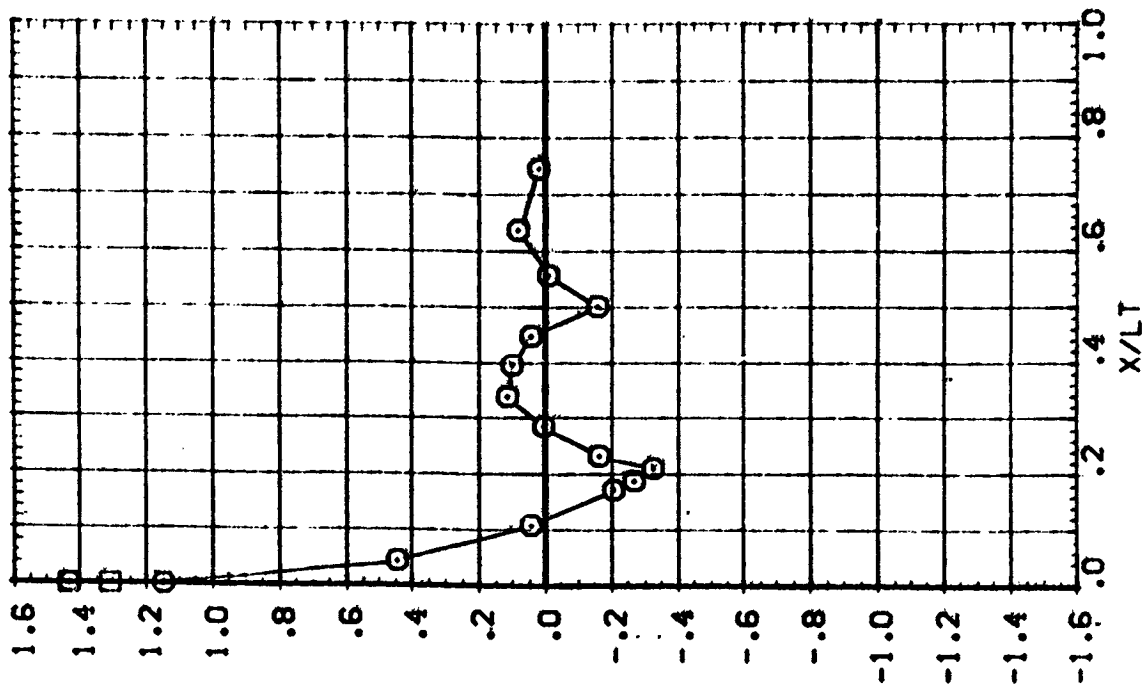
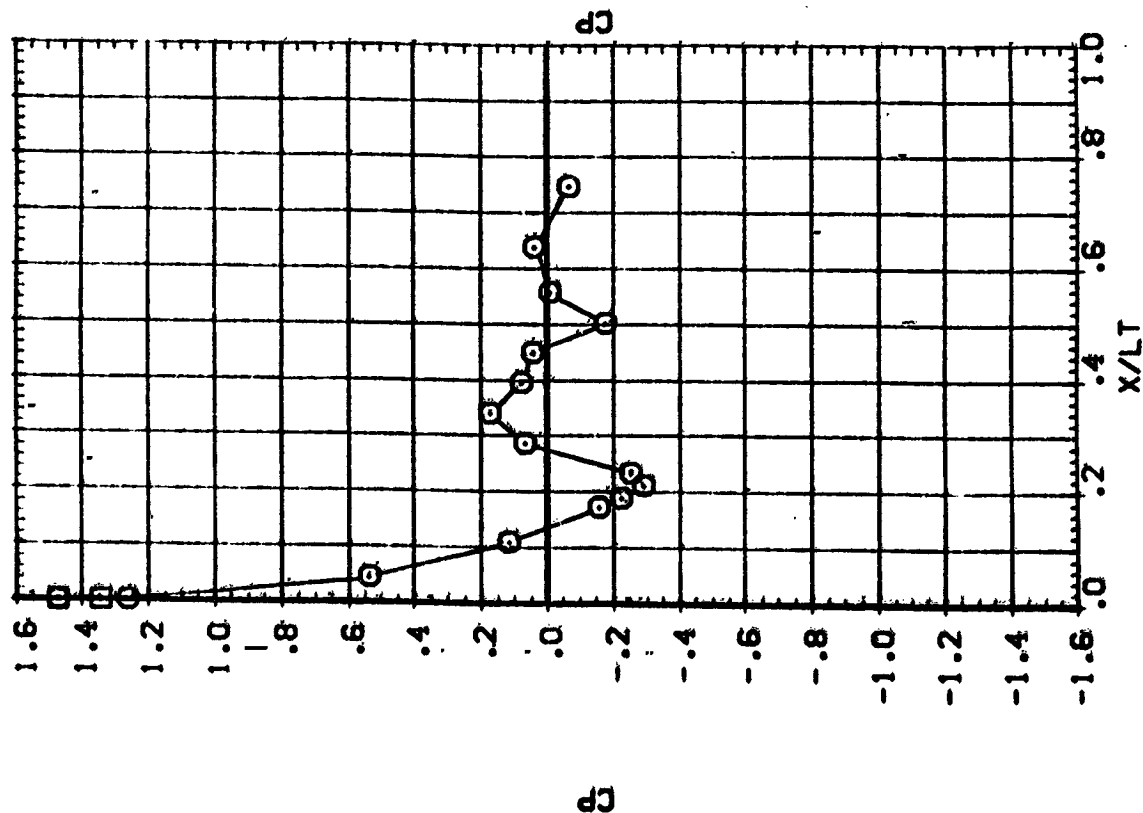
SYSC
O

PN: 180.000
270.000

ALPHAT 3.960
7.990

MACH 1.284

PARAMETRIC VALUES
BETAT .000
RJOOR .000
RJOFLR .000
ORBINL .500
ELEVON .000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES



AMES 11-707 1/9 02A + S3 + T9 EXTERNAL TANK (RBMT44)

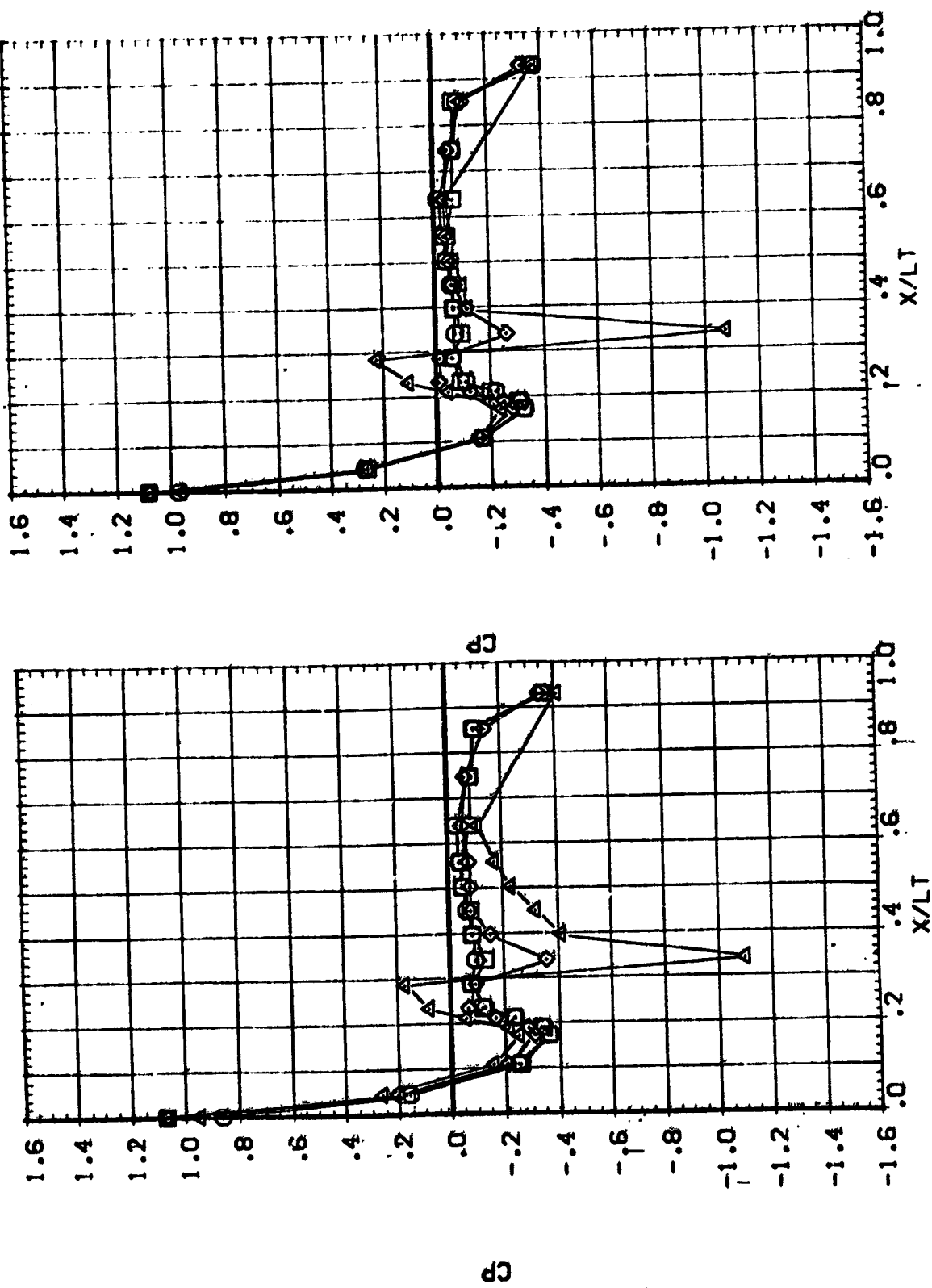
SYMBOL
○ □ ◇ △

PH: .000
30.000
60.000
90.000

ALPHAT MACH
-3.950 .598
.060

PARAMETRIC VALUES
BETAT .000
RUDDER .000
RUOFLR .000

ORIGIN -1.200
ELEVON .000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES



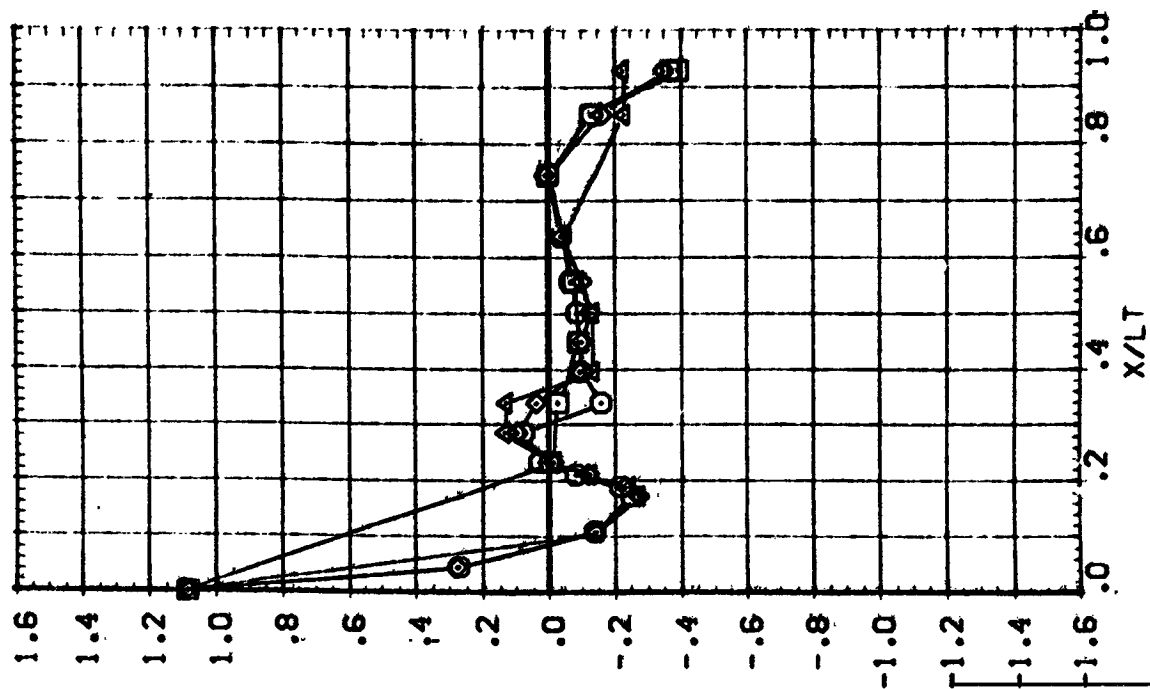
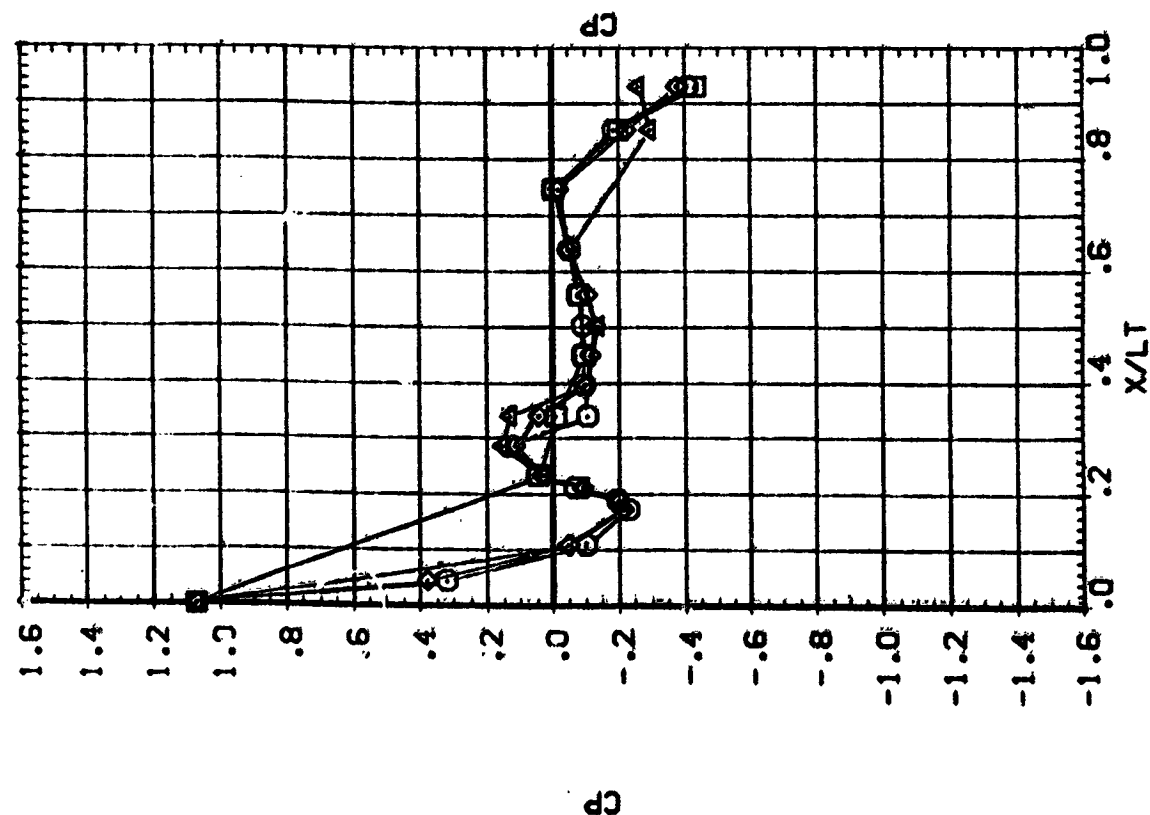
AMES 11-707 1A9 02A + S3 + T9 EXTERNAL TANK (RBMT44)

SYMBOL

PHI 120.000
OLI 35.000
◇ 150.000
△ 165.000

ALPHAT -3.990
MACH .598
.063

PARAMETRIC VALUES
BETAT .000 ORSHAC -1.230
RUDOR .000 ELEVEN .000
RUDFLR .000

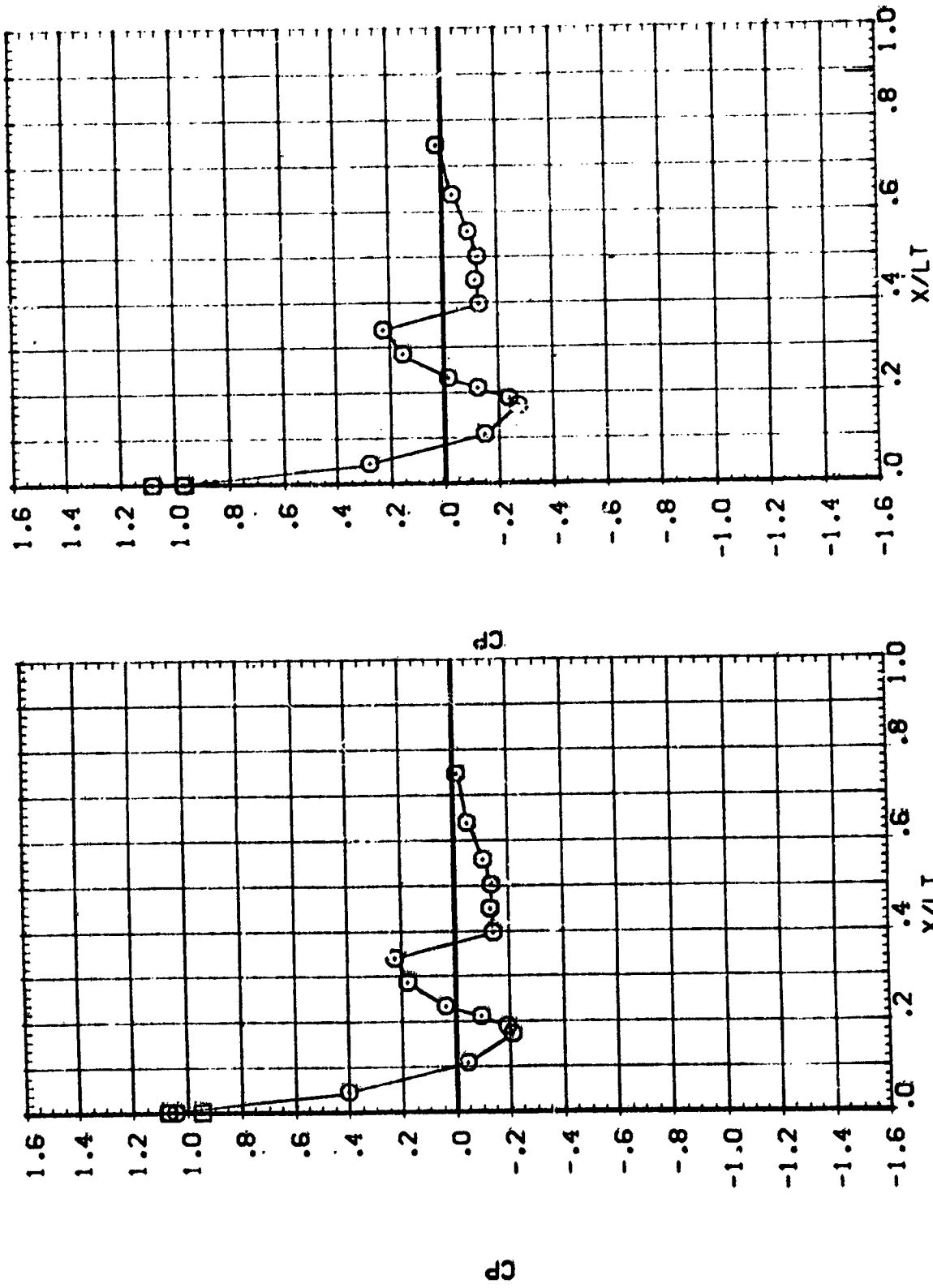


LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 11-707 IAS 02A + S3 + T9 EXTERNAL TANK (RBMT44)

SYMBOL PHI ALPHAT MACH
 180.000 -3.990 .598
 270.000 .060

PARAMETRIC VALUES
 BETAT .000 OSBINC -1.200
 RUDDER .000 ELEVON .000
 RUOTLR .000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES ::-707 1A9 C2A + S3 + T8 EXTERNAL TANK (RBMT44)

SYMBOL
 O
 I
 Δ

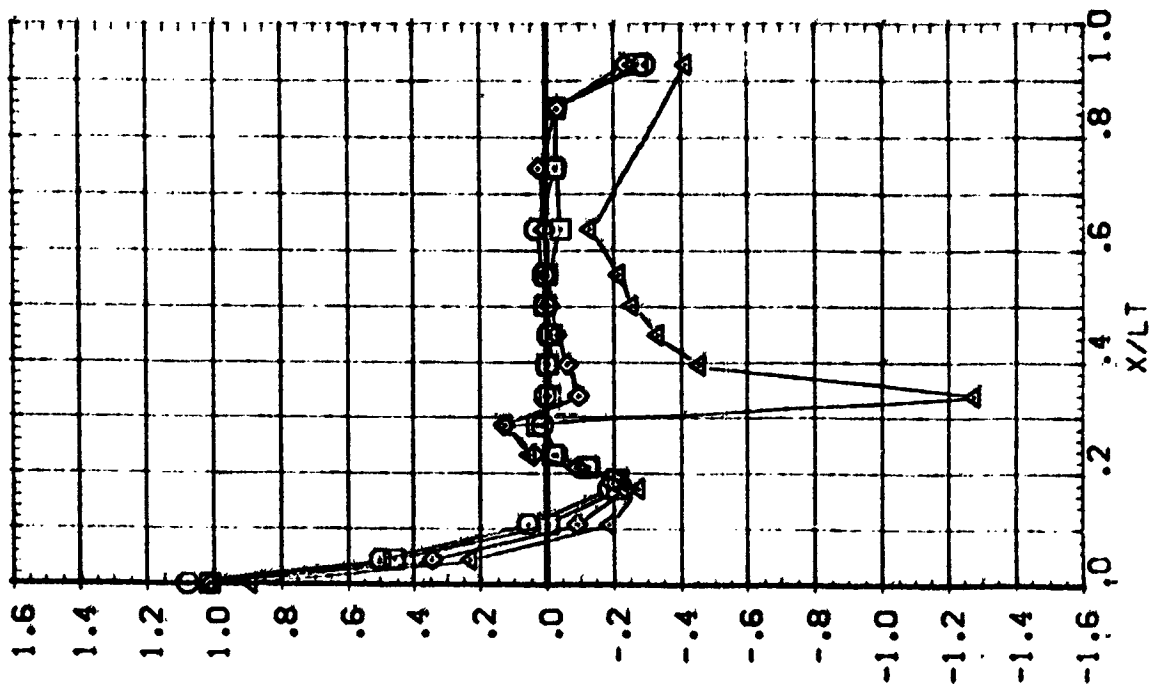
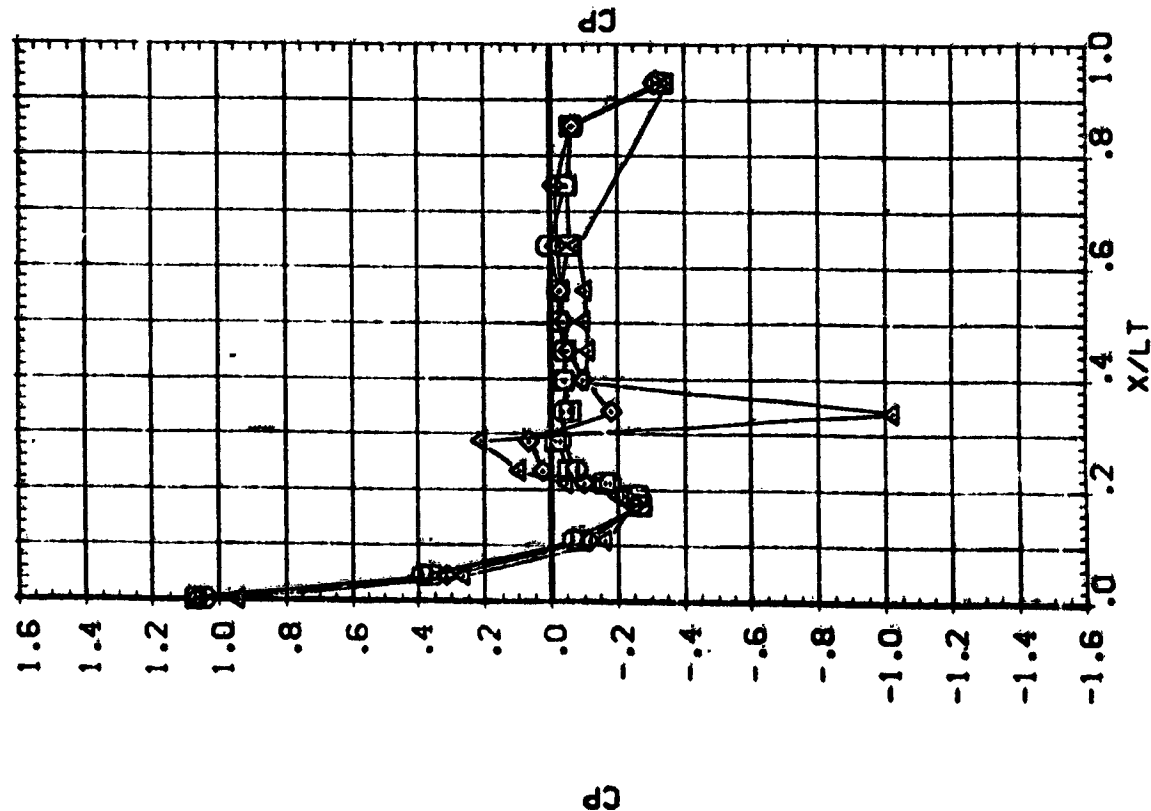
PHI .000
 30.000
 60.000
 90.000

ALPHAT 4.010
 8.020

MACH .600

PARAMETRIC VALUES
 BETAT .000
 RUDER .000
 RDELTA .000

ORBITAL -1.200
 ELEVON .000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

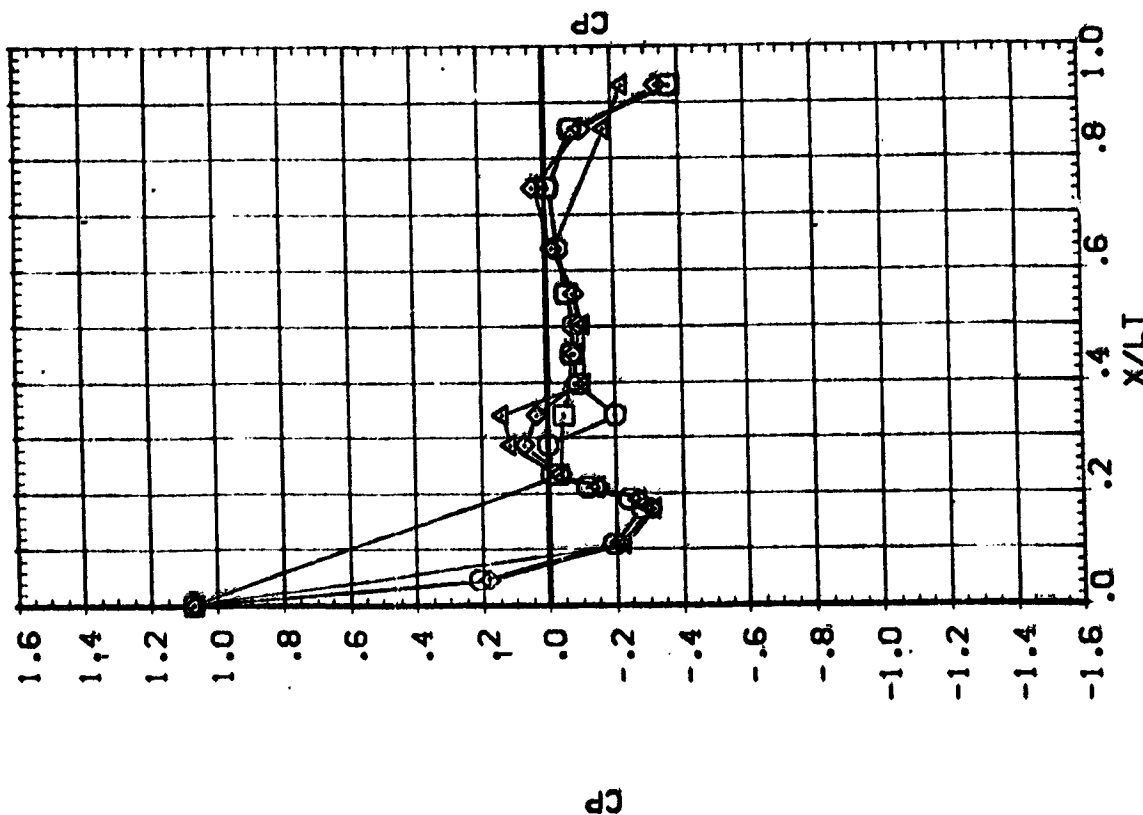
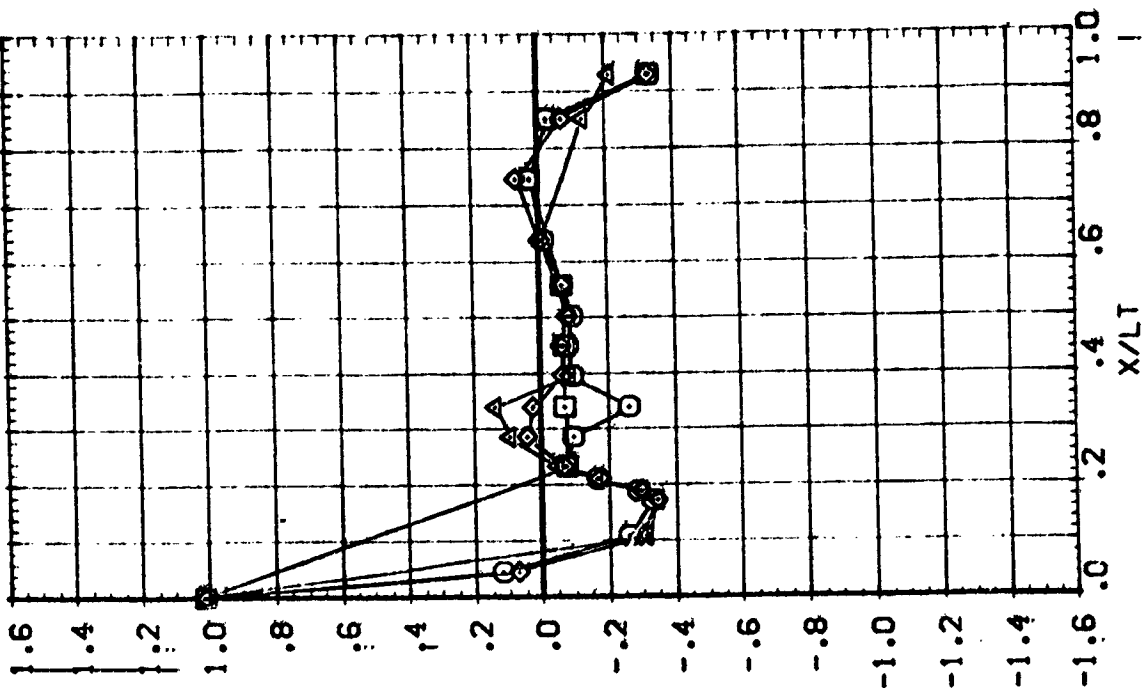


AMES 11-707 1A9 02A + S3 + T9 EXTERNAL TANK (RBMT44)

SYMBOL
 120.000
 135.000
 150.000
 165.000

ALPHAT MACH
 4.010 .600
 8.020

PARAMETRIC VALUES
 BETAT .000 DRBINC -1.200
 RUDER .000 ELEVON .000
 RUOFLR .000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 11-707 1A3 02A + S3 + T9 EXTERNAL TANK (RBMT44)

SYMBOL

PHI

ALPHA

MACH

180.000

4.010

8.020

270.000

1.000

0.000

0.000

0.000

0.000

0.000

0.000

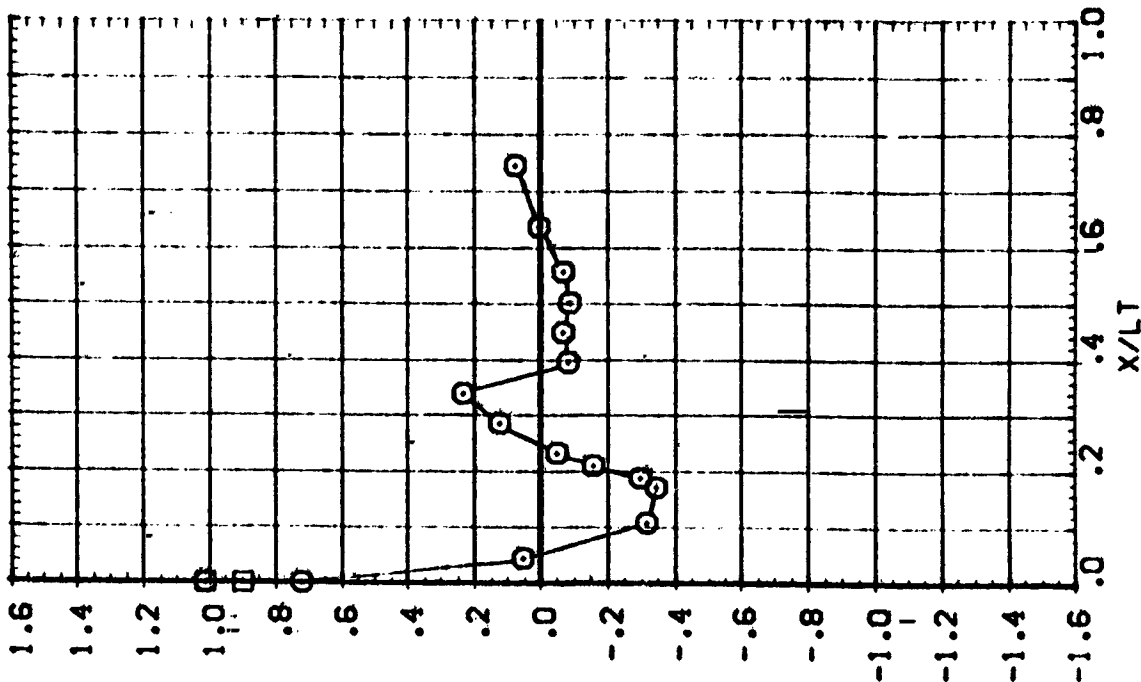
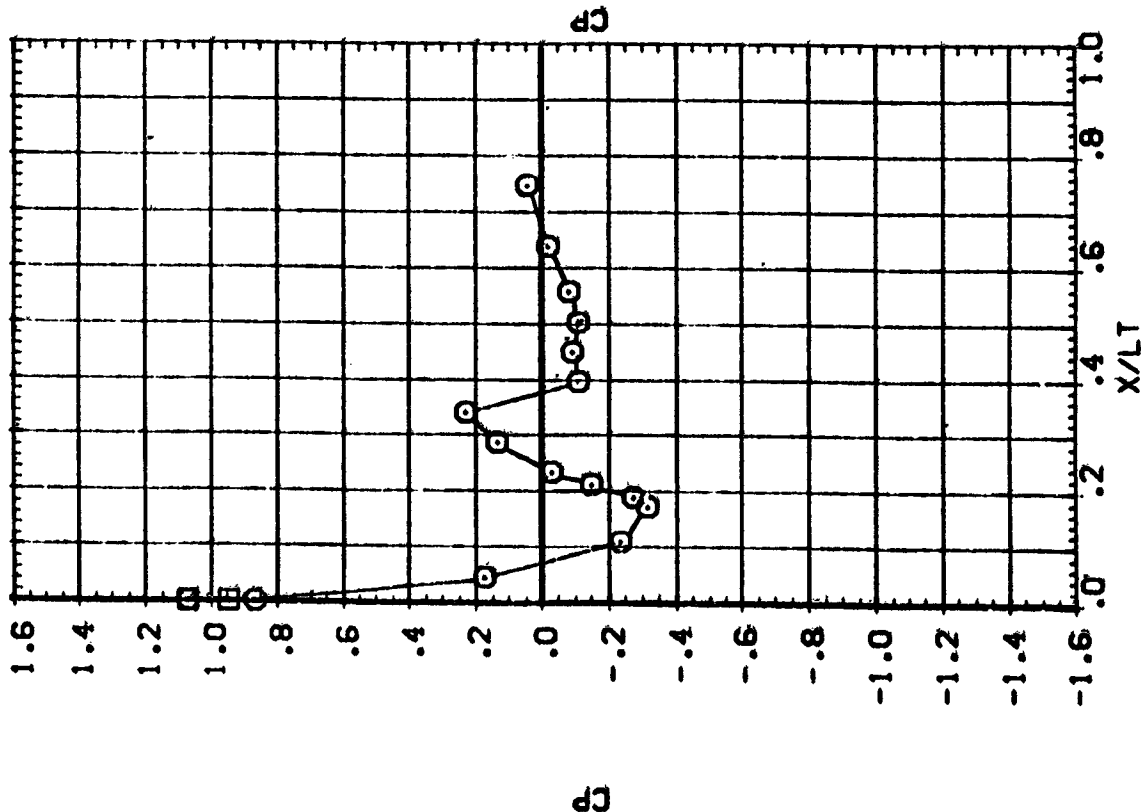
0.000

PARAMETRIC VALUES

BETAT
RUDDER
RUOFLR

ORBITC
ELEVON

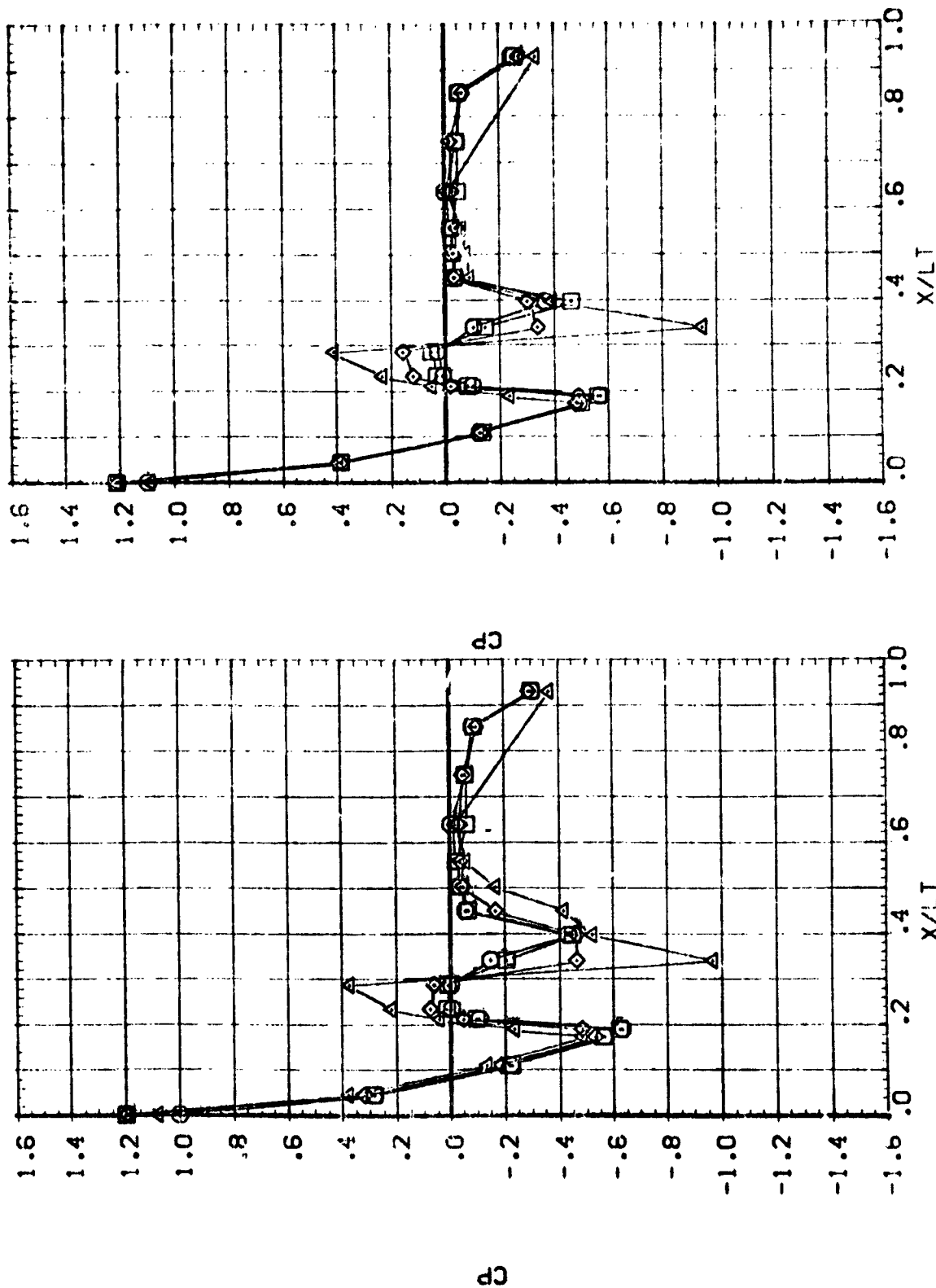
-1.200
.000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AYES 11-707 1A9 02A + S3 + T9 EXTERNAL TANK (RBMT44)

SYMBOL	PHI	ALPHA	MACH	PARAMETRIC VALUES	
	.000	-4.020	.899	BETA	0981NC
	30.000	.010		RUDER	ELEVON
	60.000			RUDER	
	90.000				



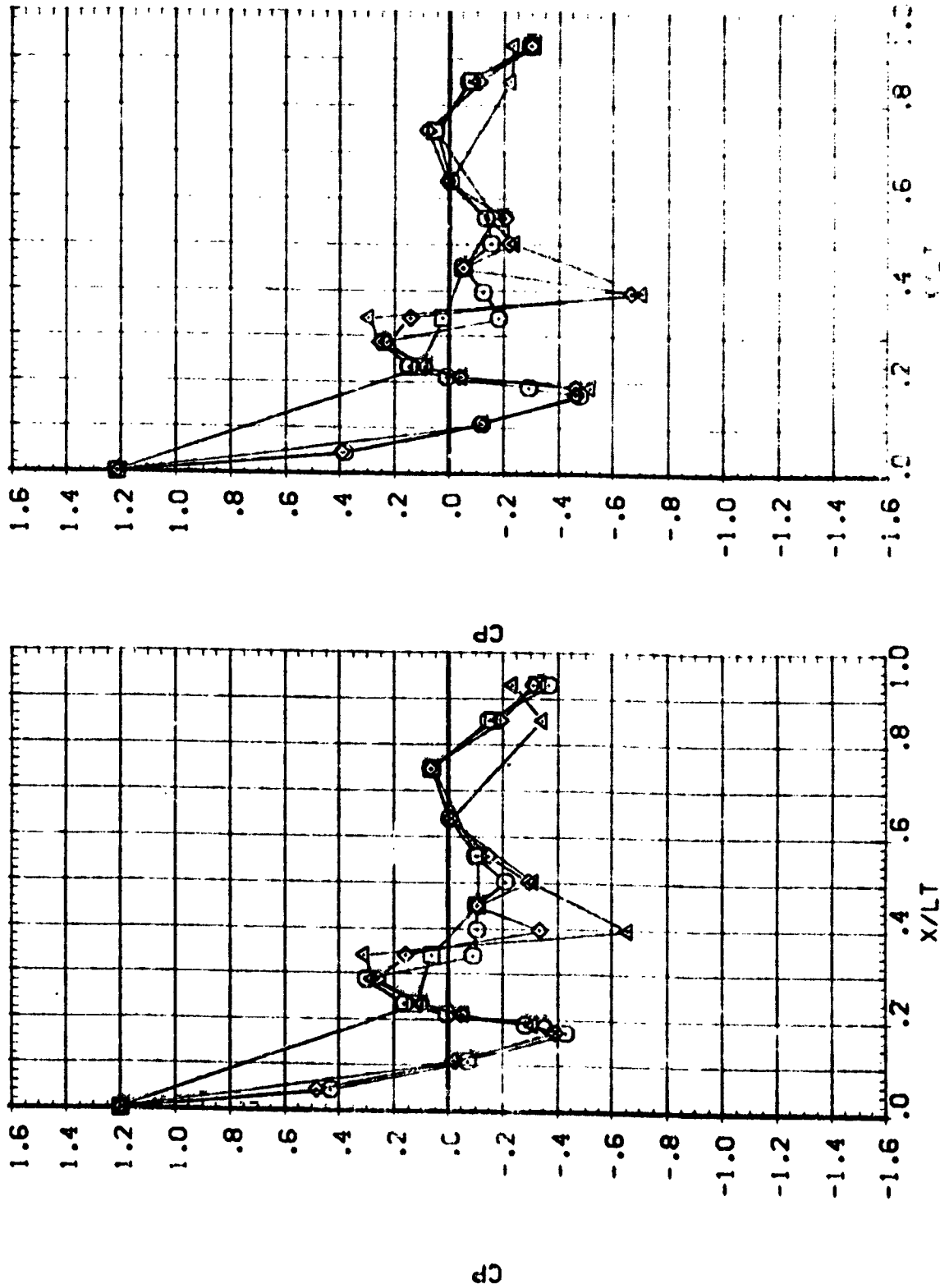
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 11-707 1A9 02A + S3 + 19 EXTERNAL TANK (RBM 44)

SYMBOL
 ○
 □
 ◇
 △

PHI ALPHAT MACH
 120.000 -4.020 .899
 135.000 .010
 150.000
 165.000

PARAMETRIC VALUES
 BETAT .000 39810 -1.200
 RUDDER .000 ELEVEN .000
 RUOFLR .000

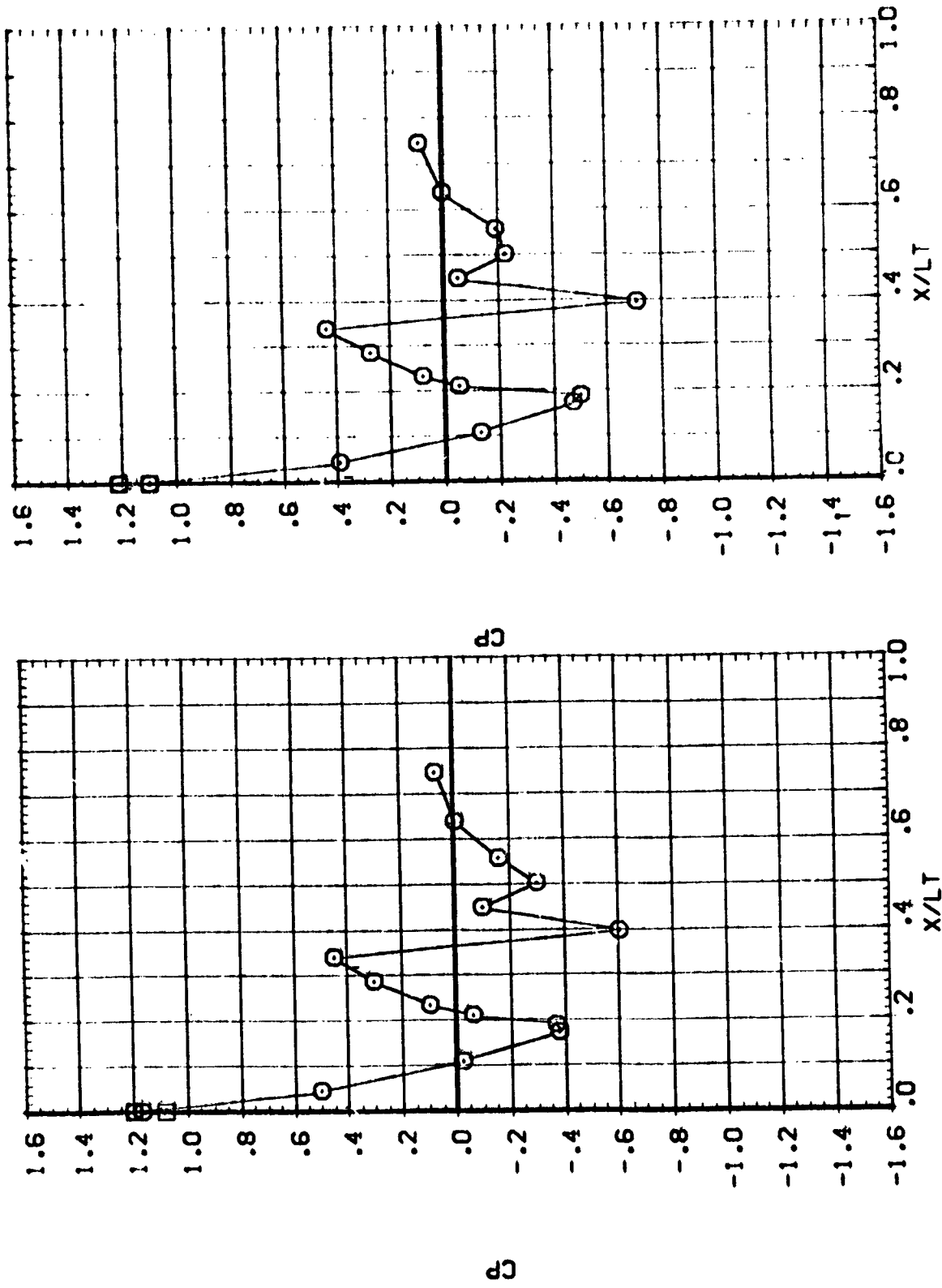


LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AVES : 1-707 1A9 02A + S3 + T9 EXTERNAL TANK

(RBMT44)

SYMBOL	PMI	ALPHAT	MACH	PARAMETRIC VALUES
OLI	180.000	-4.020	.899	BETA* .000
	270.000	.010		RODER .000
				RODER .000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

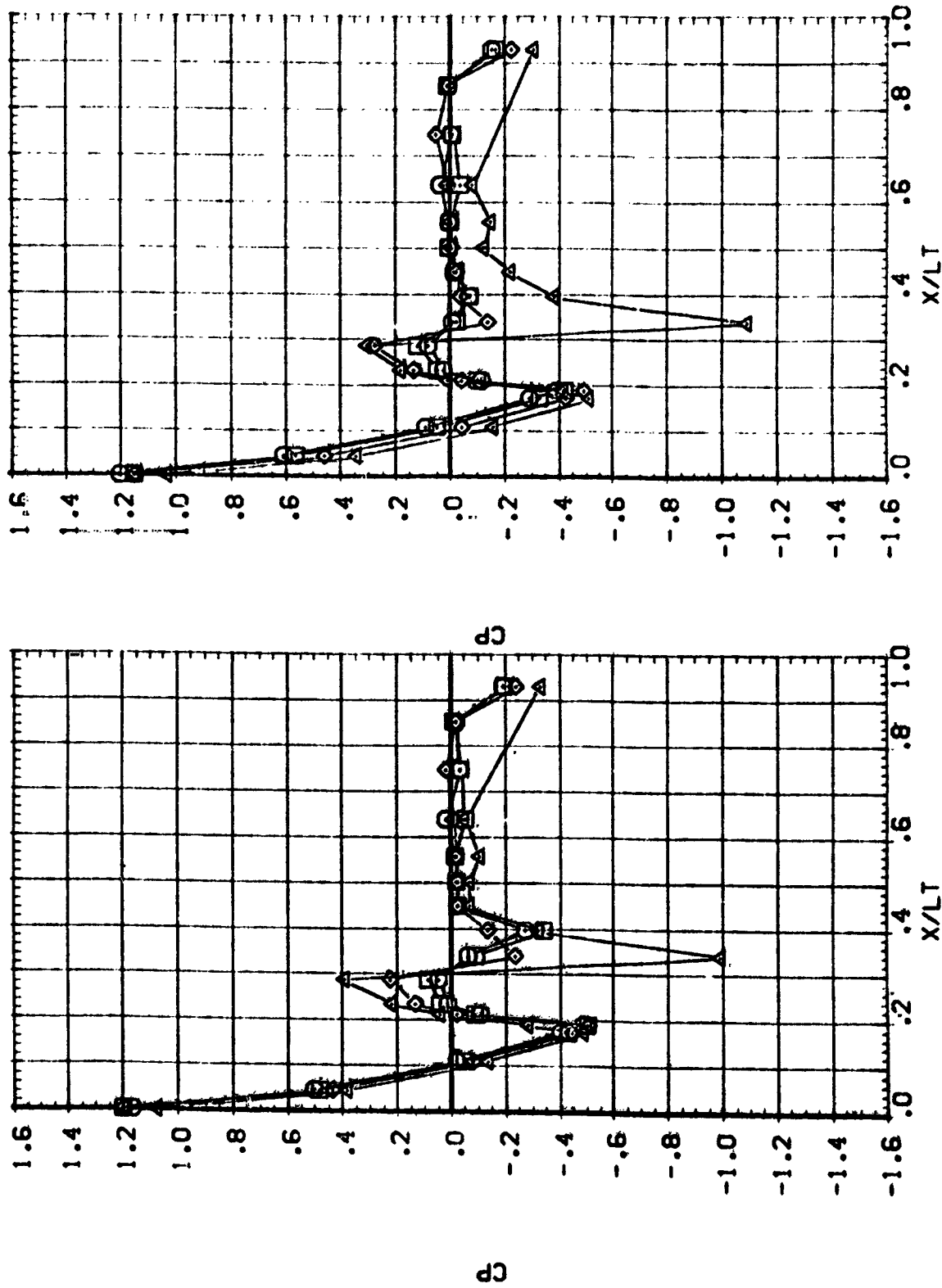
SYMBOL
 O □ ◇ △

PHI .200
 30.000
 60.000
 90.000

ALPHAT 4.010
 7.990

MACH .901

PARAMETRIC VALUES
 BETAT .000 ORBINC -1.200
 RUDDER .000 ELEVON .000
 RUDDFLR .000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AVES 1:-707 1A9 02A + S3 + T9 EXTERNAL TANK (RBMT44)

SYMBOL

20.000
 35.000
 50.000
 65.000

ALPHA

MACH

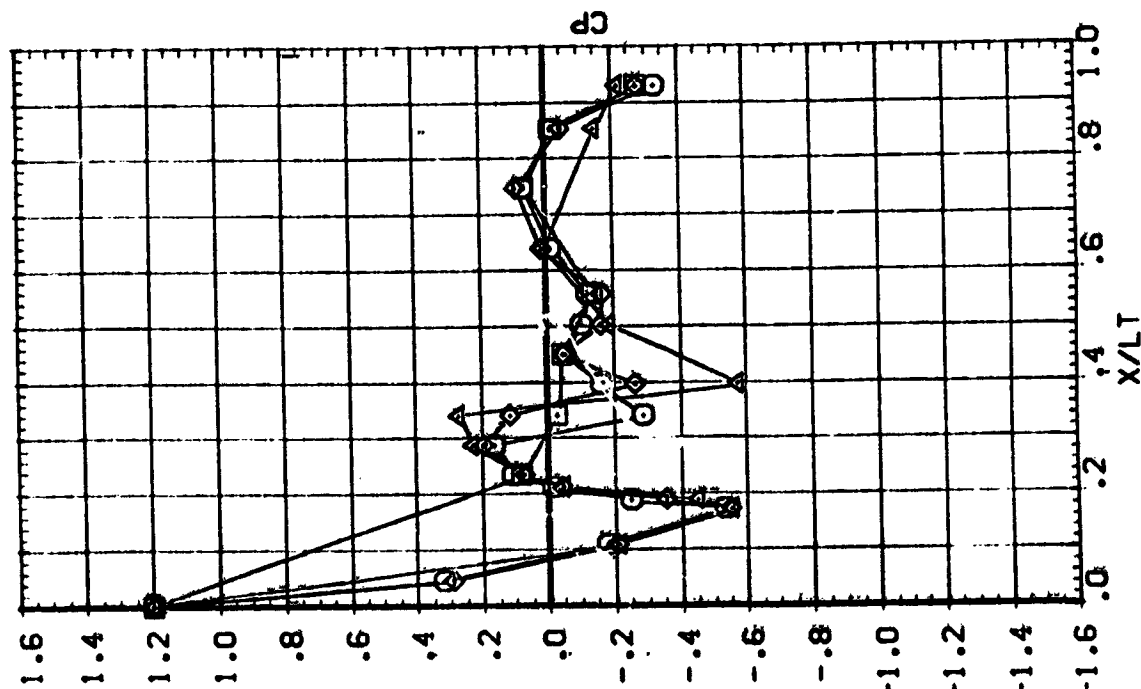
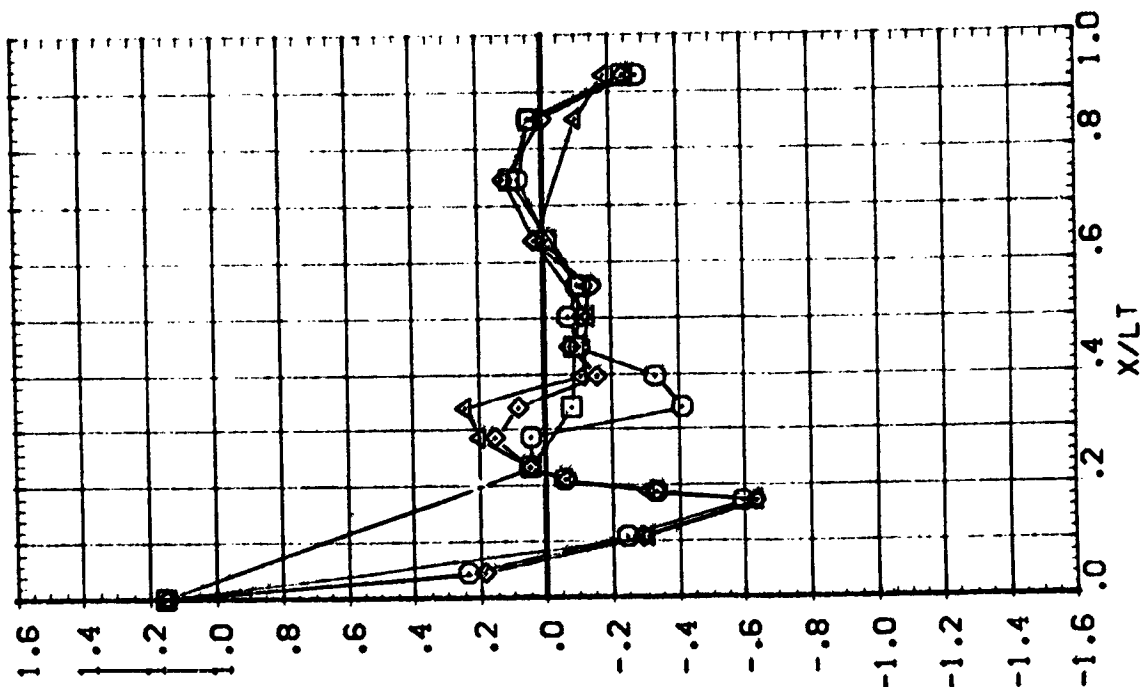
.90

PARAMETRIC VALUES

BETAT
 RUDDER
 RUDDER

.000
 .000
 .000

.000
 .000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

SYMBOL

PHI

ALPHAT

MACH

180.000

4.010

7.990

.901

270.000

0.000

0.000

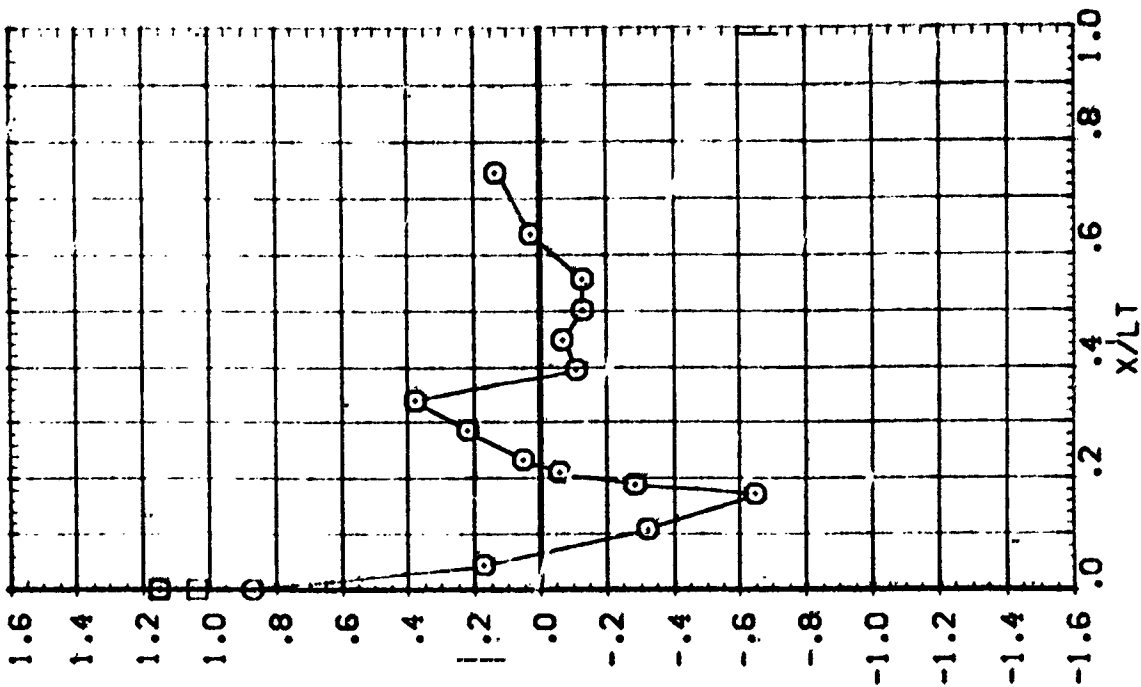
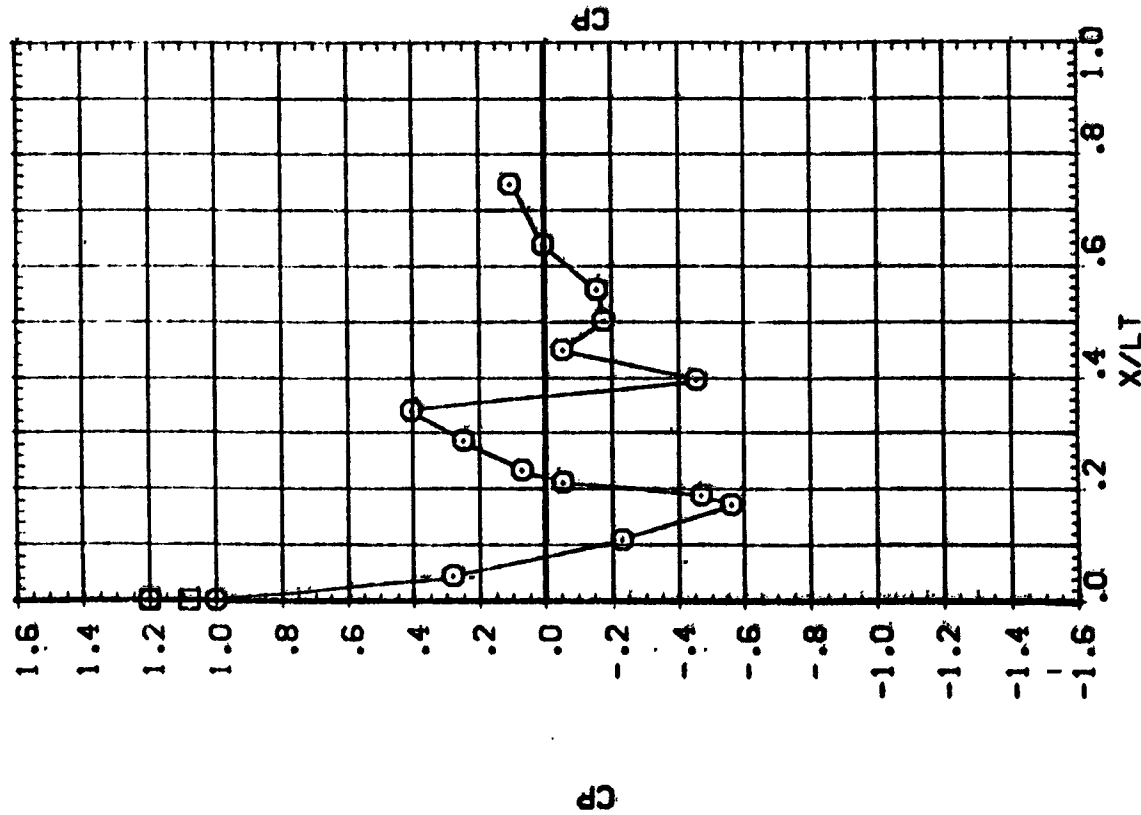
0.000

0.000

0.000

0.000

0.000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 11-707 1A9 02A + S3 + T9 EXTERNAL TANK (RBMT44)

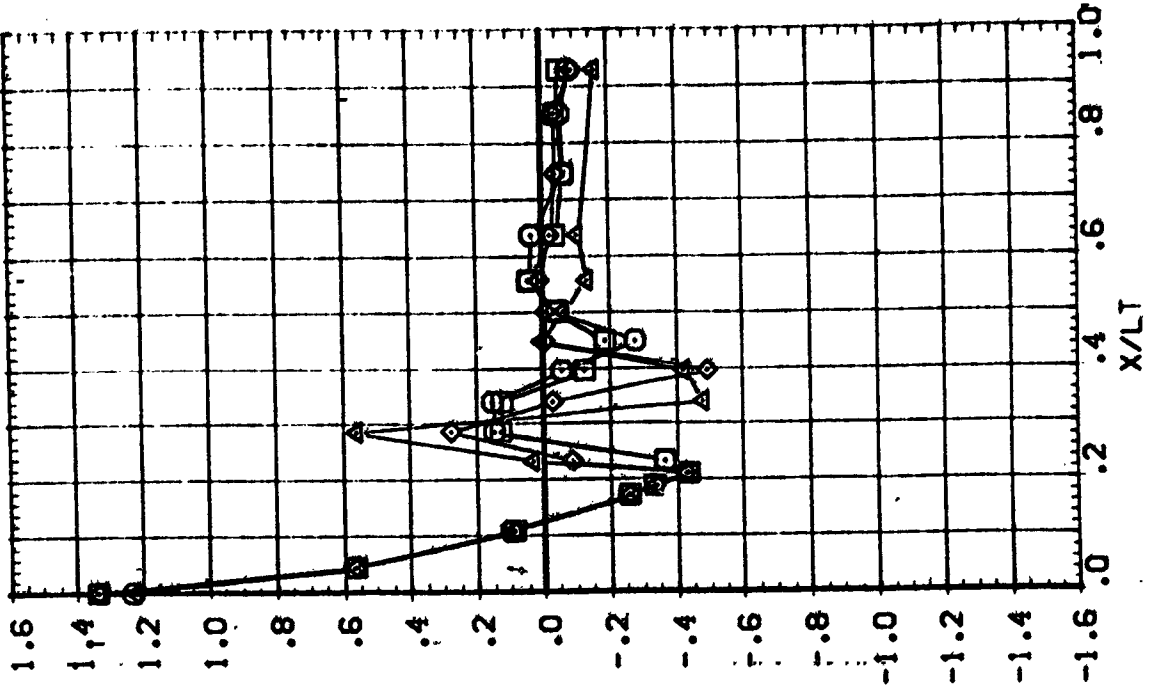
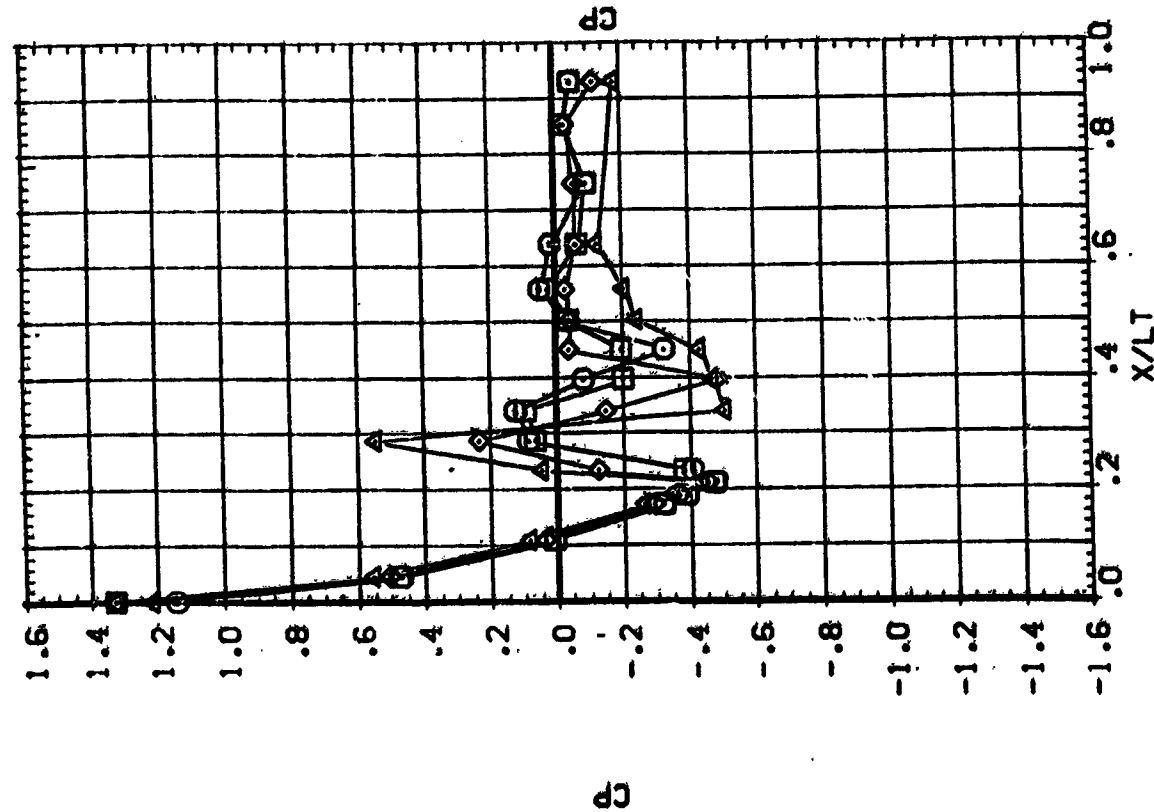
SYMBOL
 ○ □ ◇ △

PHI .000
 30.000
 60.000
 90.000

ALPHAT -3.970
 .030

MACH 1.100

PARAMETRIC VALUES
 BETAT .000 ORBINC -1.200
 R00ER .000 ELEVEN .000
 R00FLR .000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

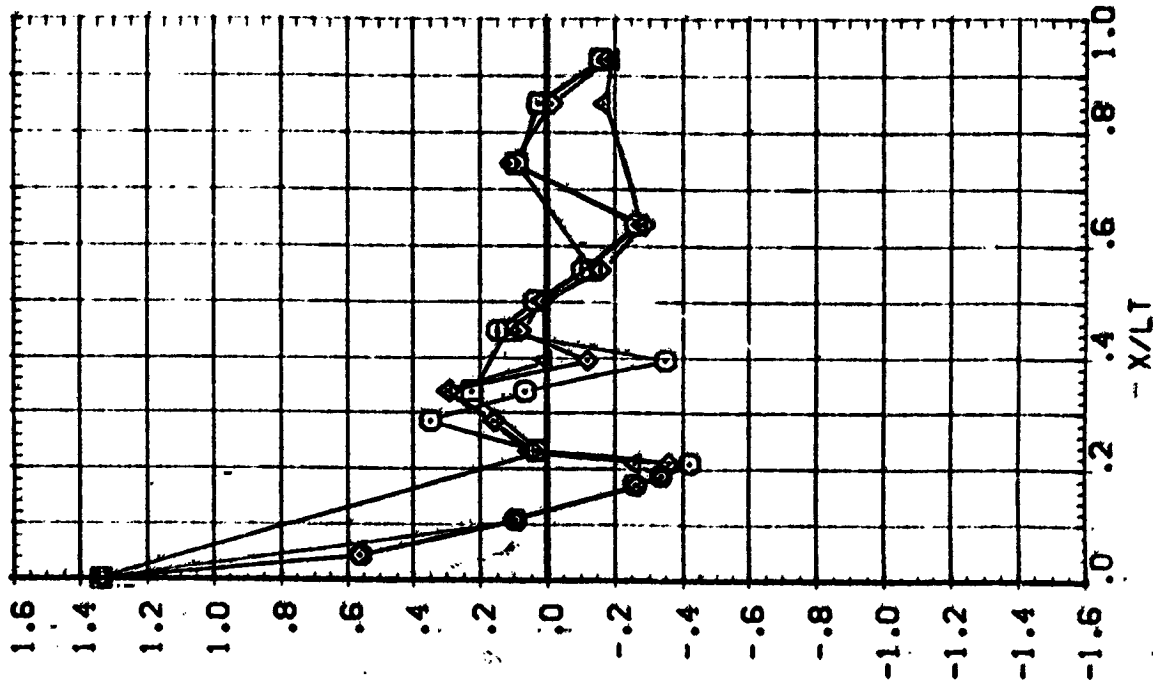
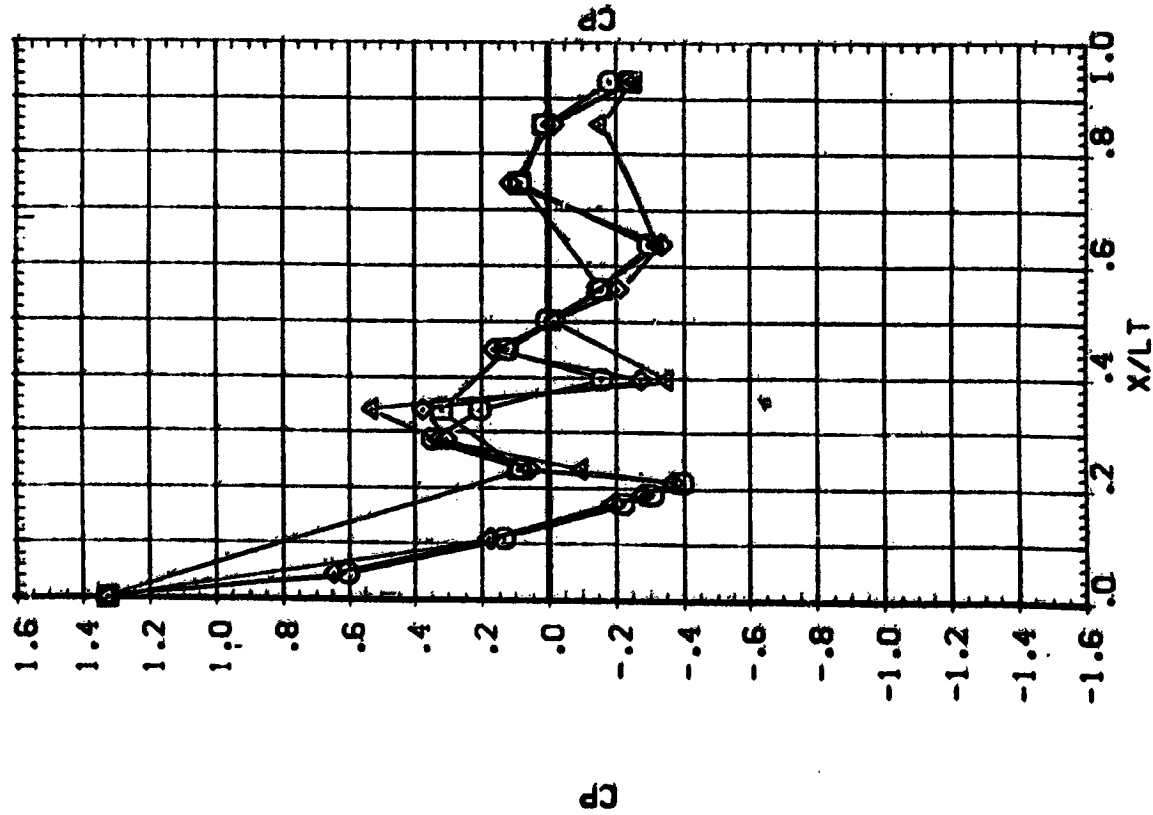
SYMBOL
 ○ □ ◇ △

PN1
 120.000
 126.000
 150.000
 165.000

ALPHAT
 -3.970
 .030

MACH
 1.100

PARAMETRIC VALUES
 BETAT .000
 RUDDER .000
 RUOFLR .000
 ORBINC -1.200
 ELEVON .000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

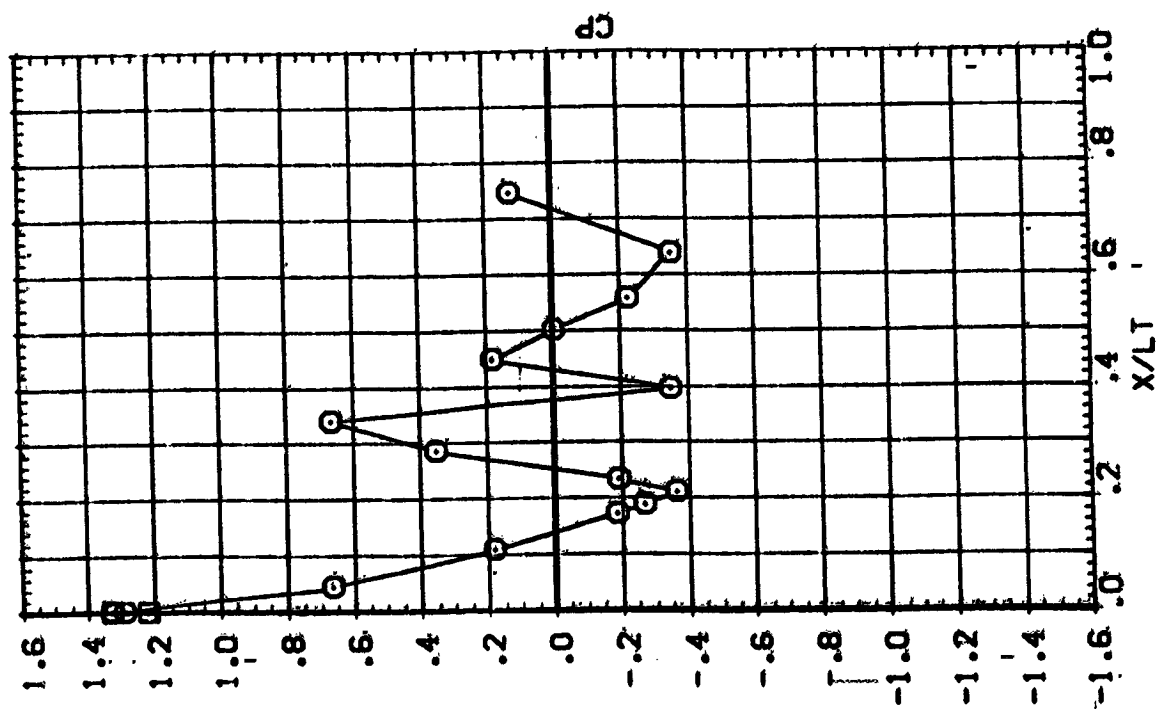
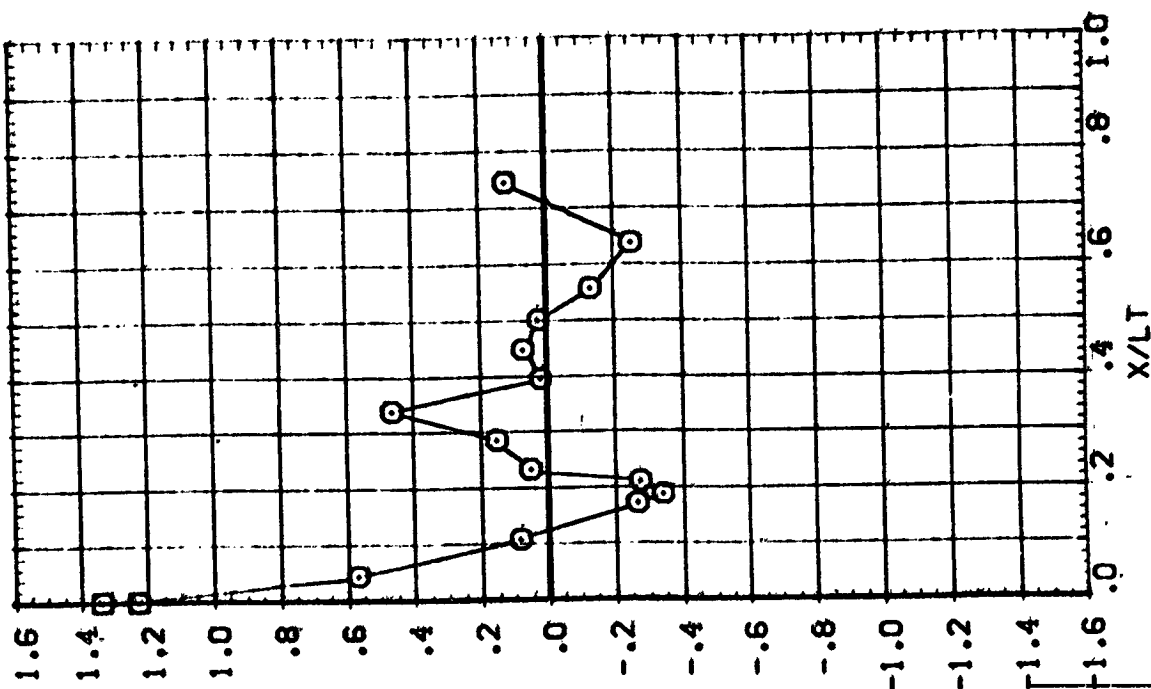
SYMBOL
□

PM: 180.000
270.000

ALPHAT -3.970
:030

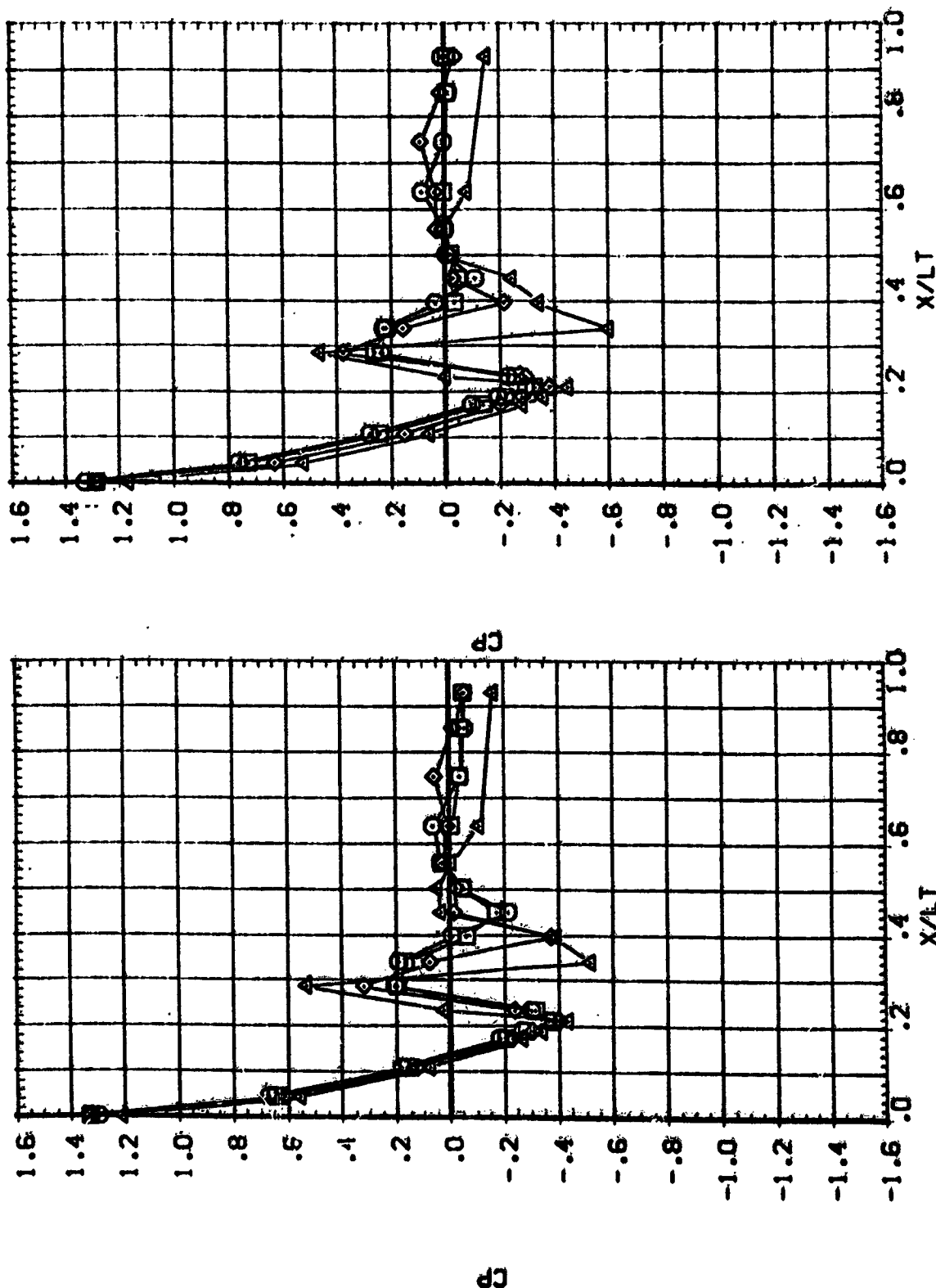
MACH 1.100

PARAMETRIC VALUES
BETAT .000 ORBINC -1.200
RUDDER .000 ELEVON .000
RUOFLR .000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

SYMBOL	PMI	ALPHA	MACH	PARAMETRIC VALUES			
				BETAT	ORBNAC	ELEVON	
□	.000	3.980	1.102	.000	.000	.000	-1.200
◇	30.000	8.010		.000	.000	.000	.000
△	60.000			.000	.000	.000	.000
	90.000						



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

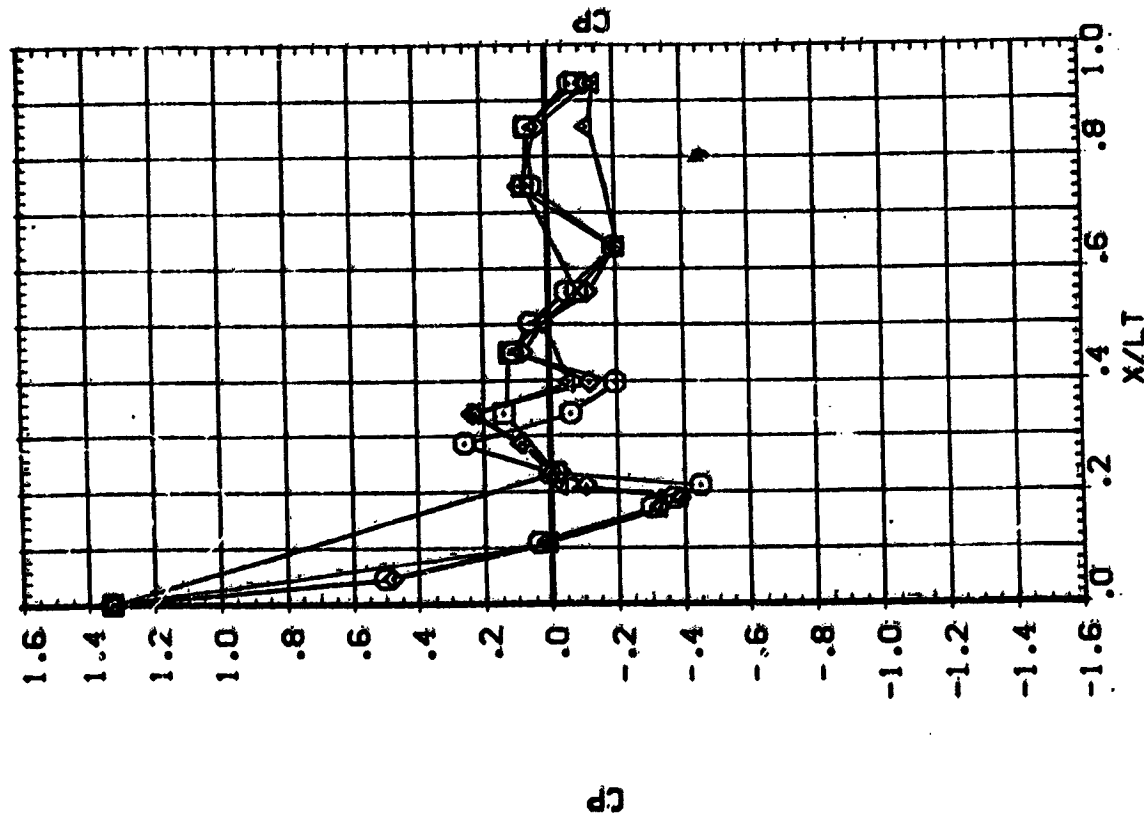
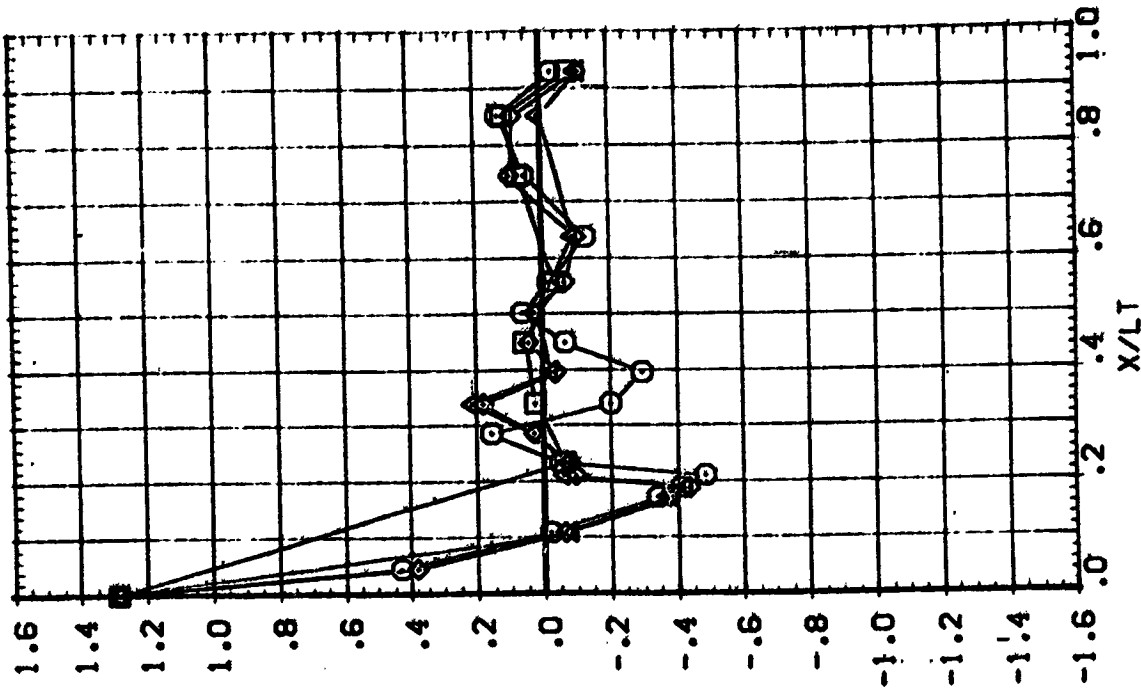


AMES 11-707 1A9 02A + S3 + T9 EXTERNAL TANK (RBMT44)

PARAMETRIC VALUES
 BETAT .000 DRBTIC -1.200
 RUDDER .000 ELEVON .000
 RUOFLR .000

PHI ALPHAT MACH
 120.000 3.980 1.102
 135.000 8.010
 150.000
 165.000

SYMBOL
 ○ □ ◇ △



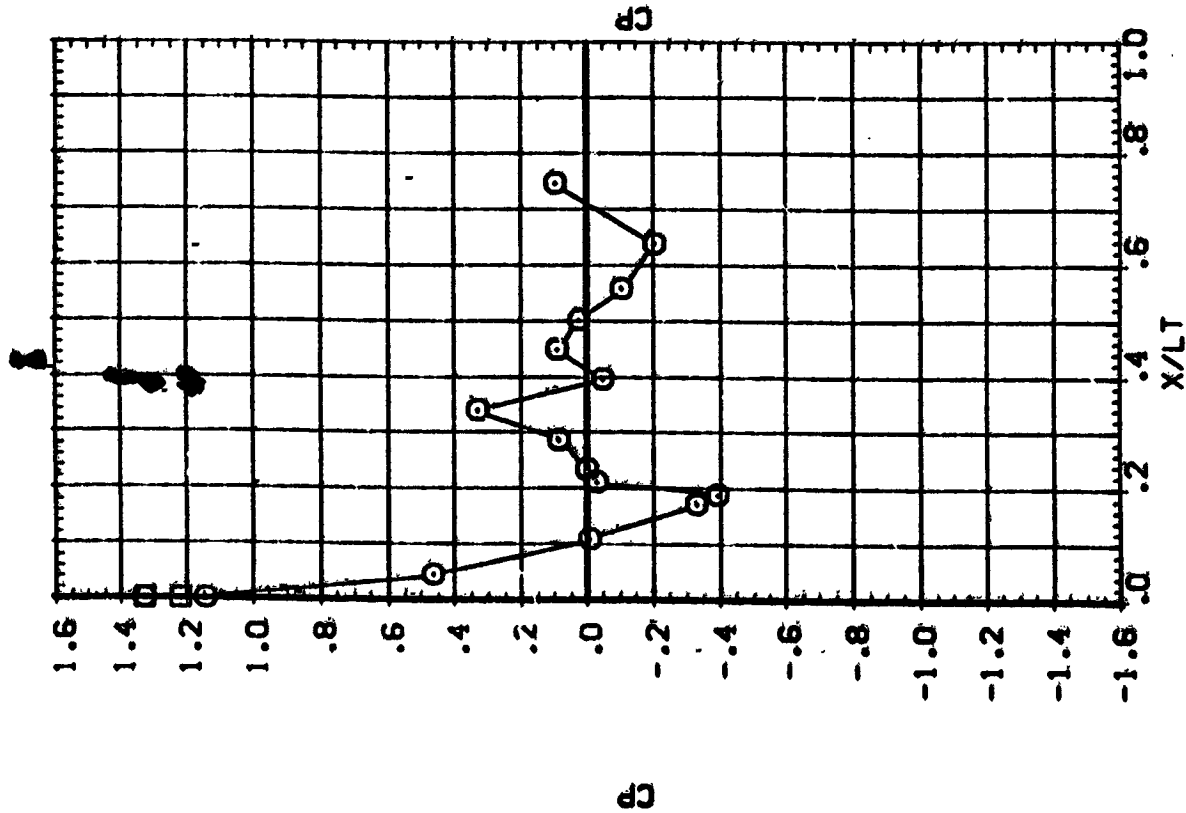
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

SYMBOL

○ □

PHI 180.000 270.000
ALPHA 3.980 8.010
MACH 1.102

PARAMETRIC VALUES
BETAT .000 ORBINC -1.203
RUDDER .000 ELEVEN .003
RUOFLR .000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES



AMES 11-707 1A9 02A + S3 + T9 EXTERNAL TANK (RBMT44)

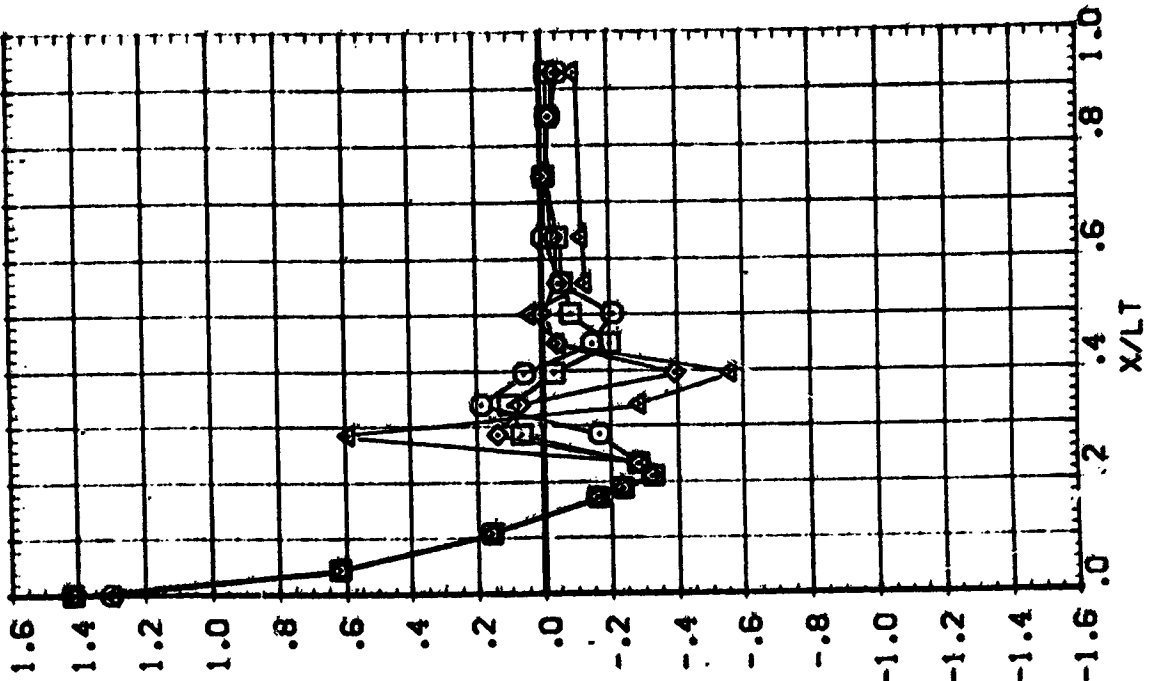
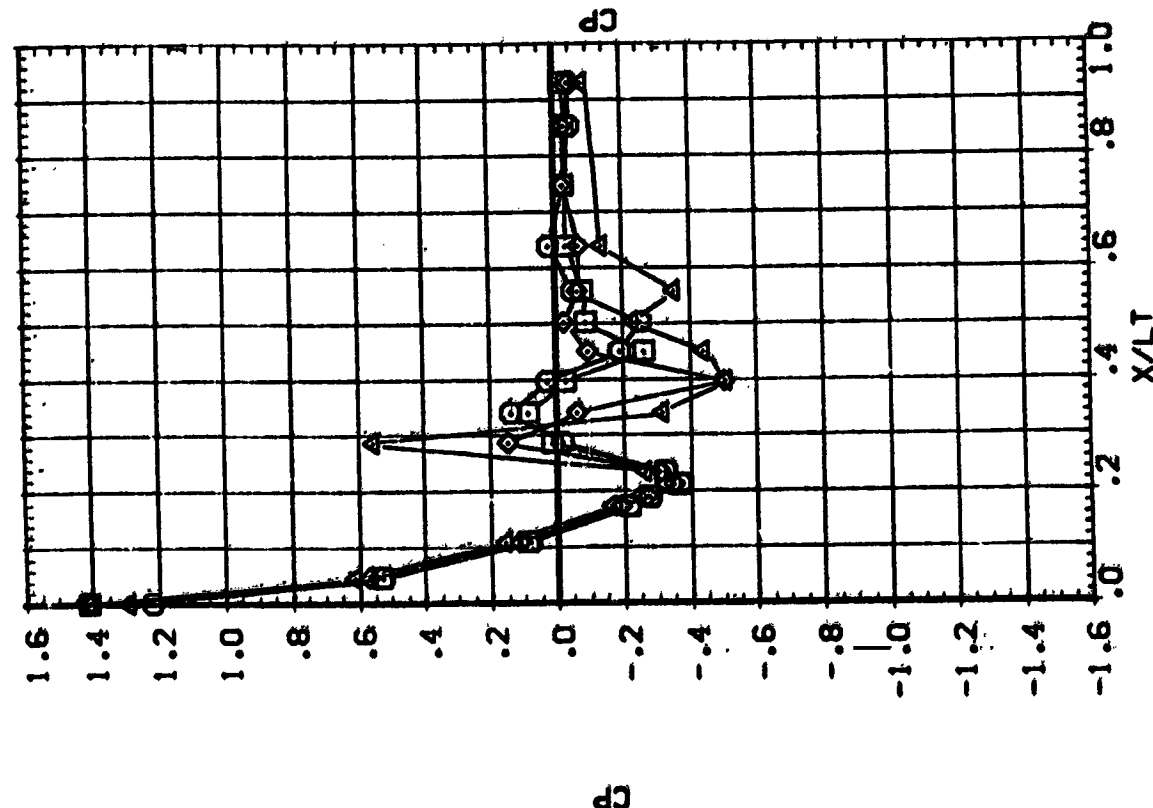
SYMBOL
 ○ □ ◇ △

PHI .000
 30.000
 60.000
 90.000

ALPHAT -3.960
 .020

MACH 1.247

PARAMETRIC VALUES
 BETAT .000 ORBINC -1.200
 R00DR .000 ELEVON .000
 R00FLR .000

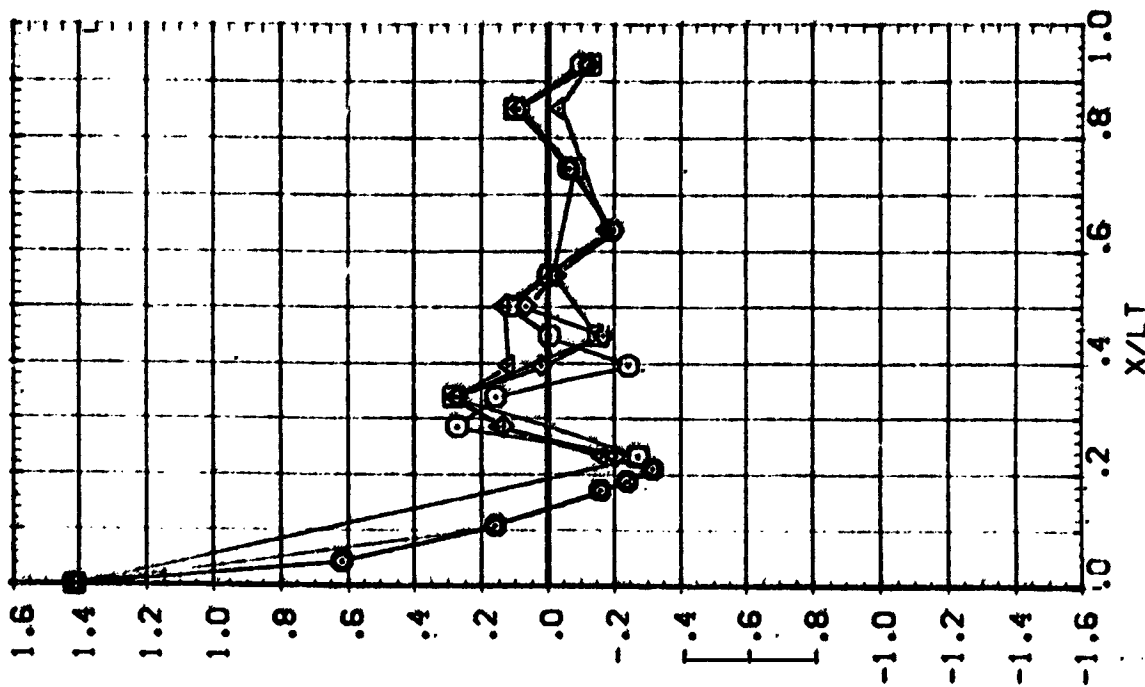
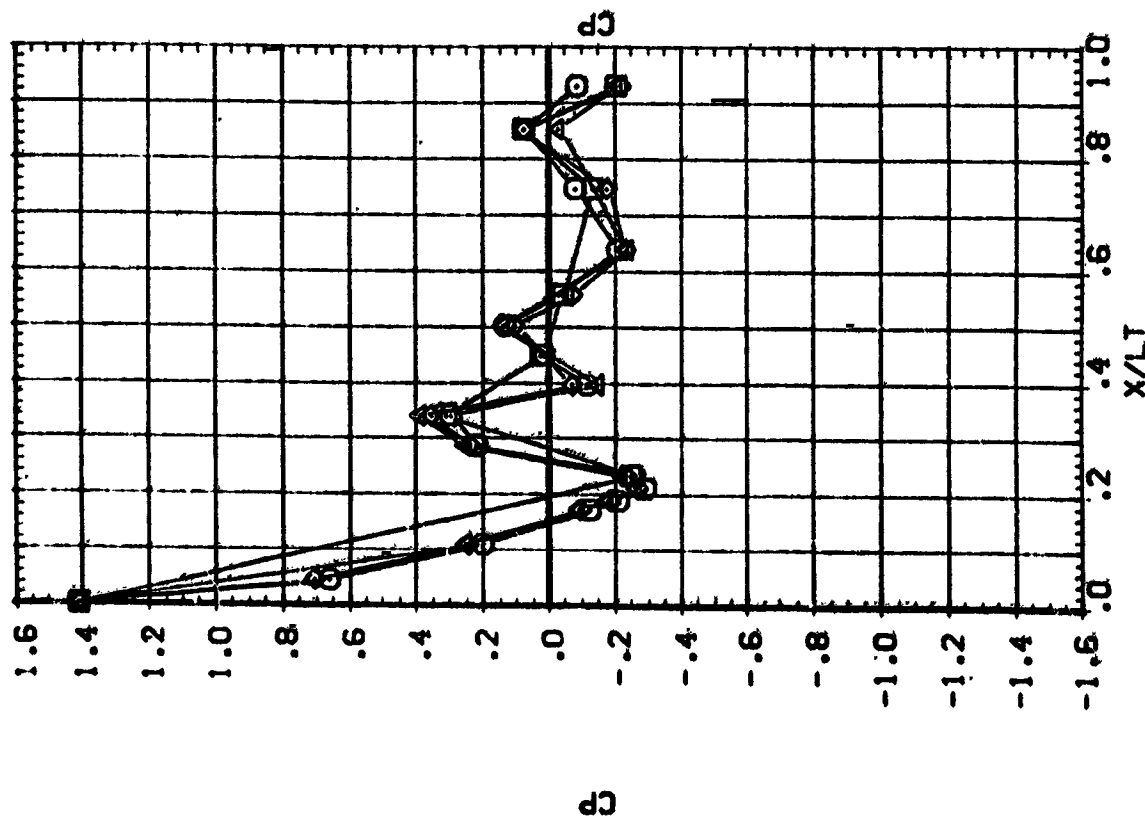


LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

SYMBOL
O
D
Δ

BN1 ALPHA7 MACH
120.000 -3.950 1.247
135.000 .020
150.000
165.000

PARAMETRIC VALUES
BE7AT .000 CRBINC -1.200
RLODER .000 ELEVEN .000
RLOFLR .000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

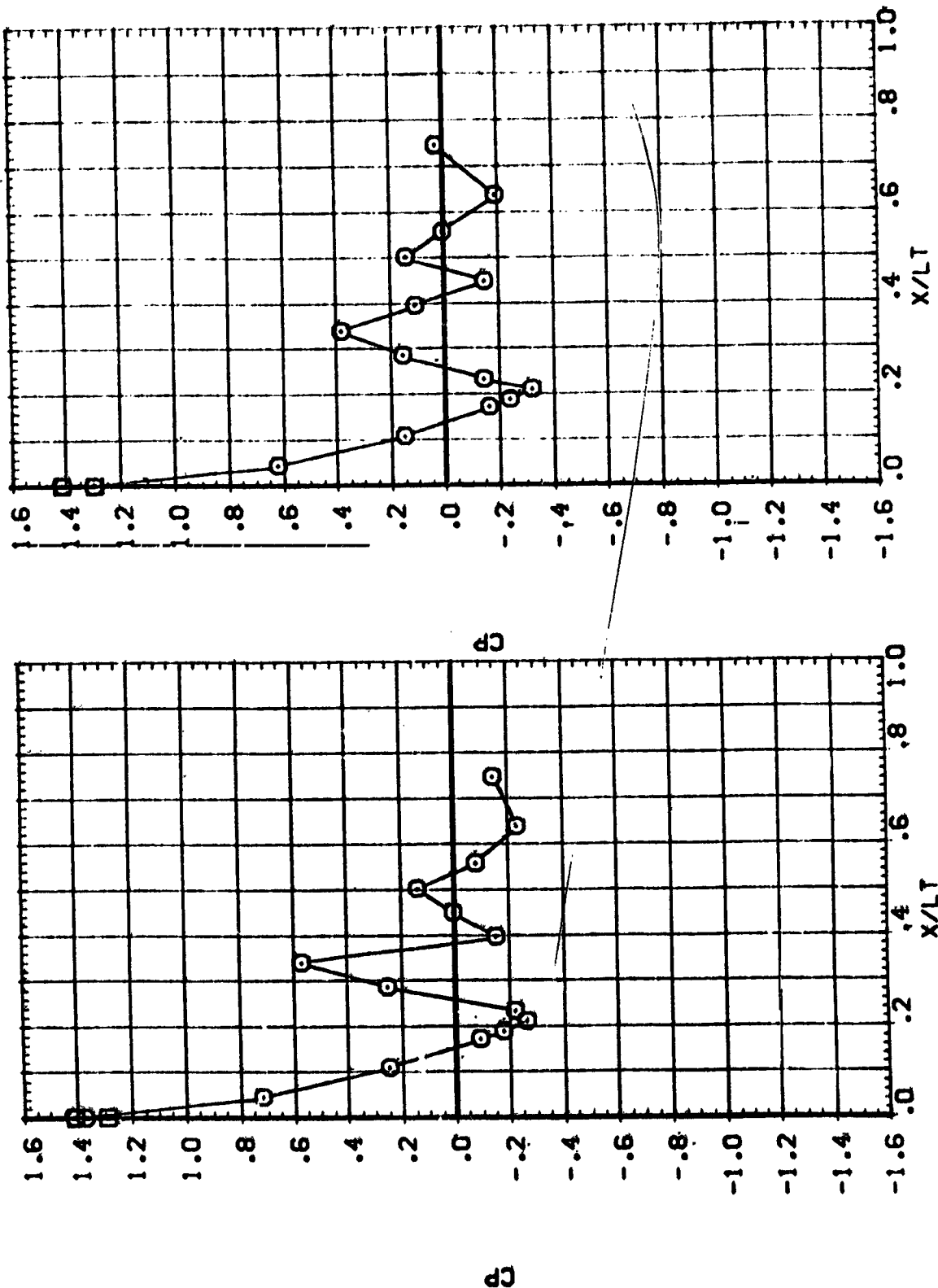


AMES 11-707 1A9 G2A + S3 + T9 EXTERNAL TANK (RBMT44)

SYMBOL
C
I

PHI 180.000
270.000
ALPHAT -3.950
MACH 1.247
.020

PARAMETRIC VALUES
BETAT .000
RUDGER .000
RUDFLR .000
SRBINC -1.200
ELEVON .000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

SYMBOL
 □
 ○
 ◇
 △

PHI .000
 30.000
 60.000
 90.000

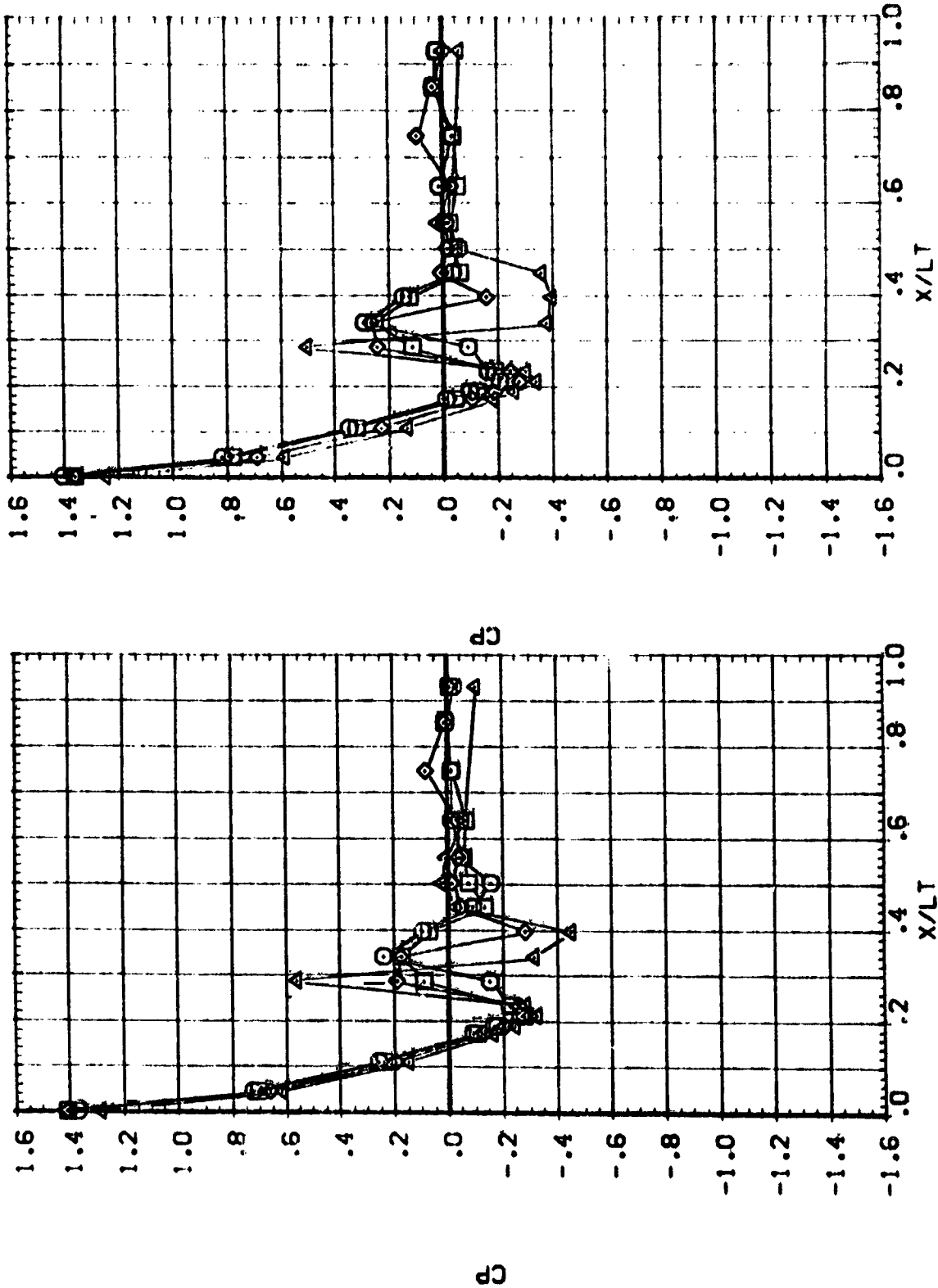
ALPHA 4.020
 8.010

MACH 1.248

PARAMETRIC VALUES
 BETAT .000
 RUDDER .000
 RUOFLR .000

CSBINC .000
 ELEVON .000

-1.200
 .000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES



AMES 11-707 1A9 C2A + S3 + T9 EXTERNAL TANK

(RBM744)

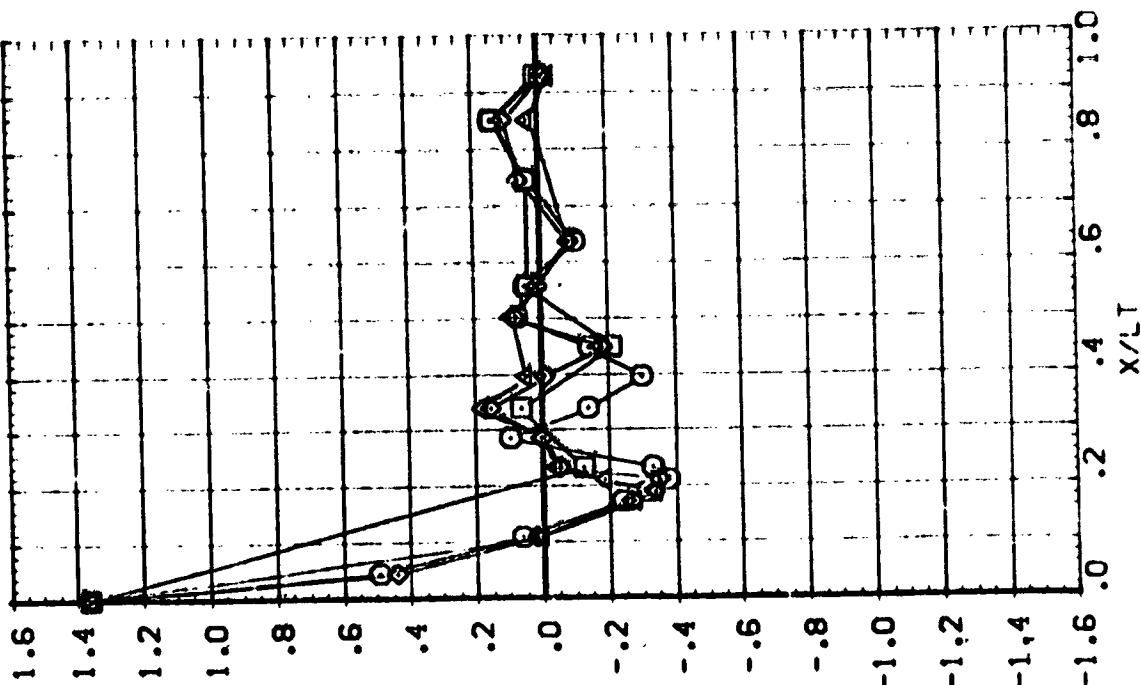
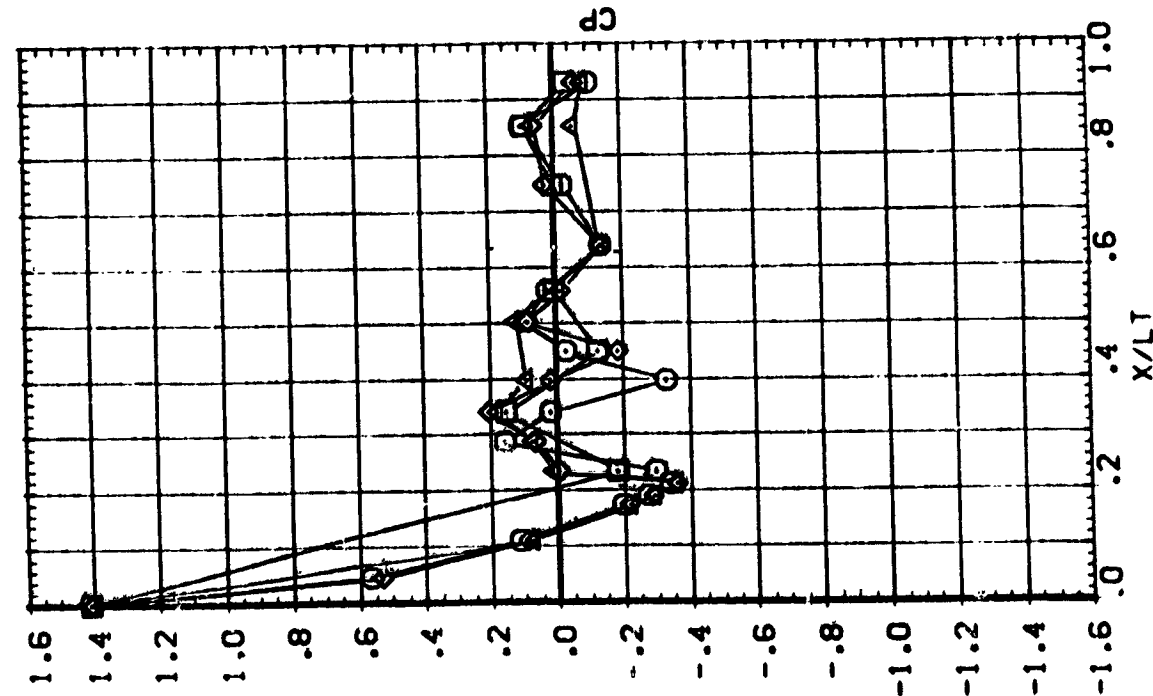
SYMBOL
□ ○ ◇ △

PHI
20.000
135.000
150.000
165.000

ALPHAT
4.020
8.010

MACH
1.248

PARAMETRIC VALUES
BETAT .000 0.000
R00ER .000 0.000
R00FLR .000 0.000
ELEVON -1.200
ELEVON .000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES



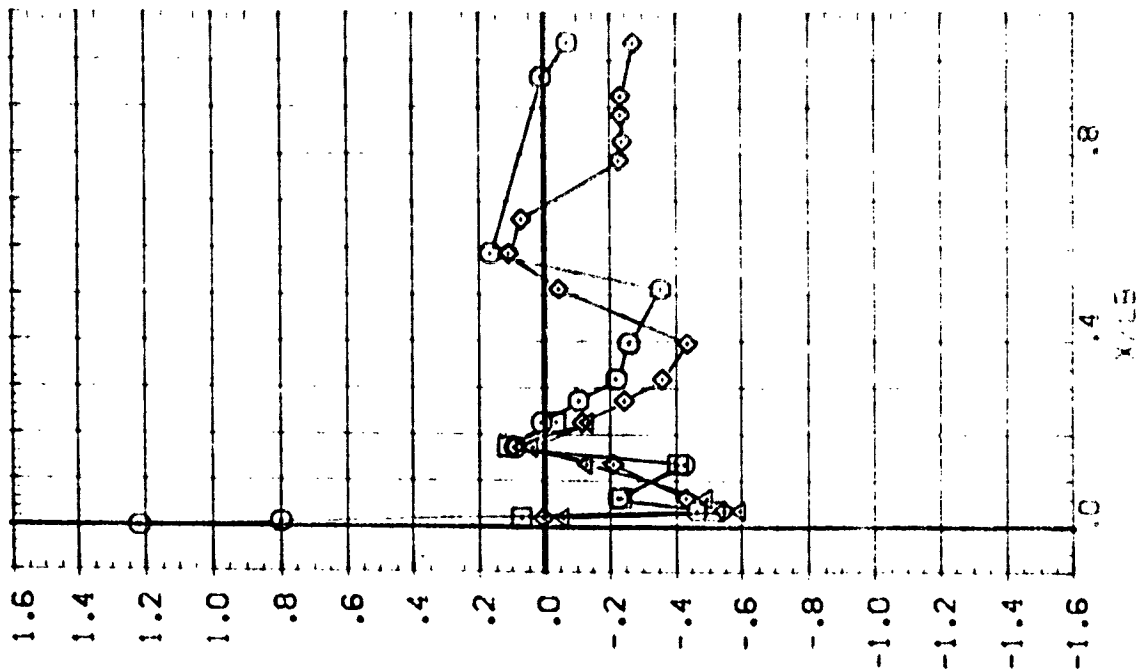
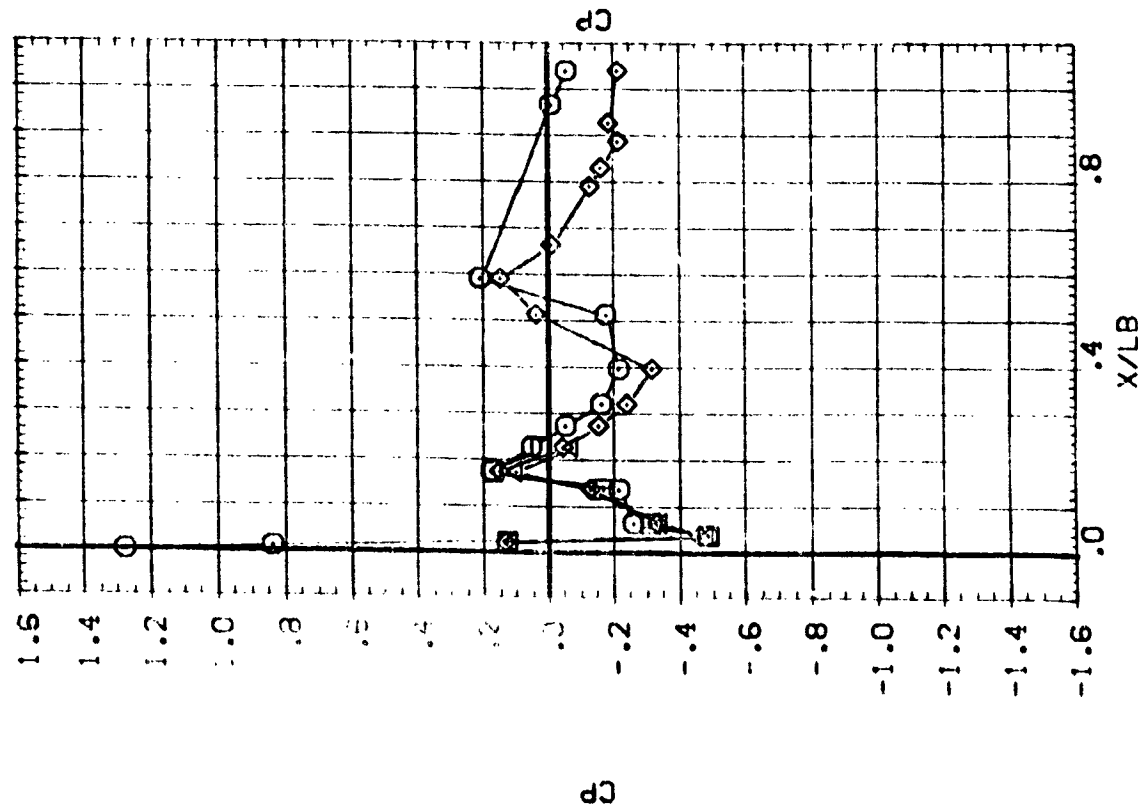
AVES 11-100 119 02A - S3 + 19 ORBITER FUSELAGE (R34925)

SYMBOL

0.000
20.000
40.000
55.000

BETAT MACH
4.130 11.00
8.260

PARAMETER VALUES
ALPHA .000 ORBITAL .500
RUDDER .10.000 ELEVON .000
RUDDER .000



LONGITUDINAL DISTRIBUTION OF ORBITER FUSELAGE PRESSURES

AMES 11-707 1A9 02A + S3 + T9 EXTERNAL TANK (RBMT44)

SYMBOL
O []

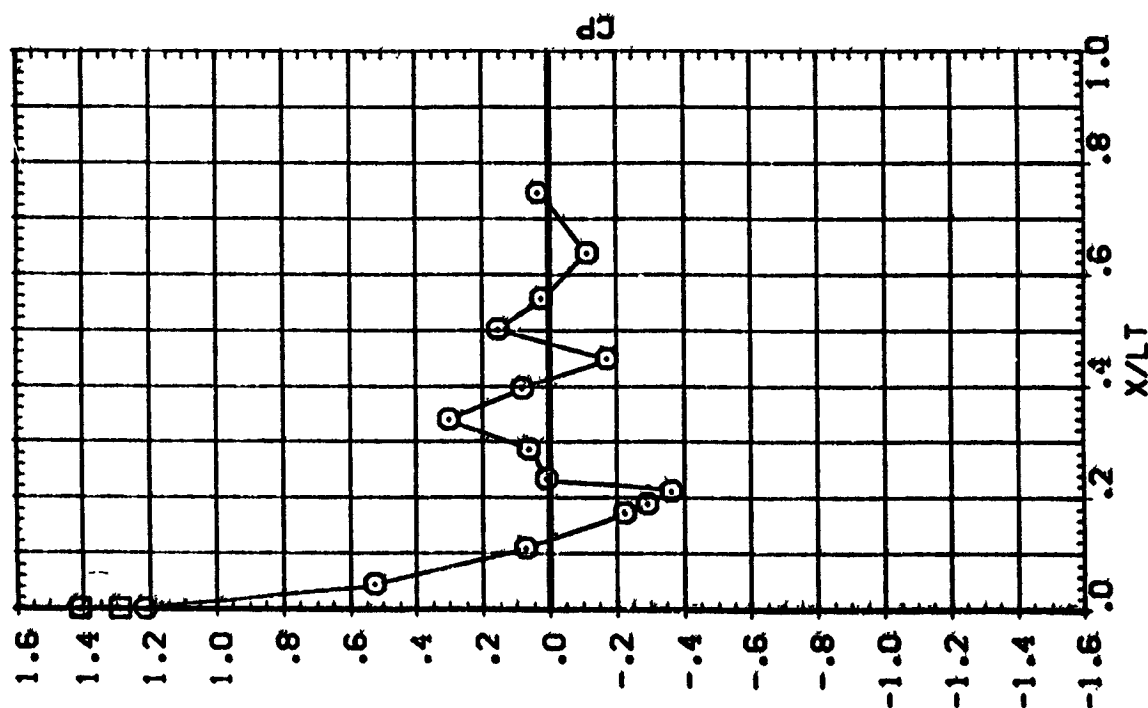
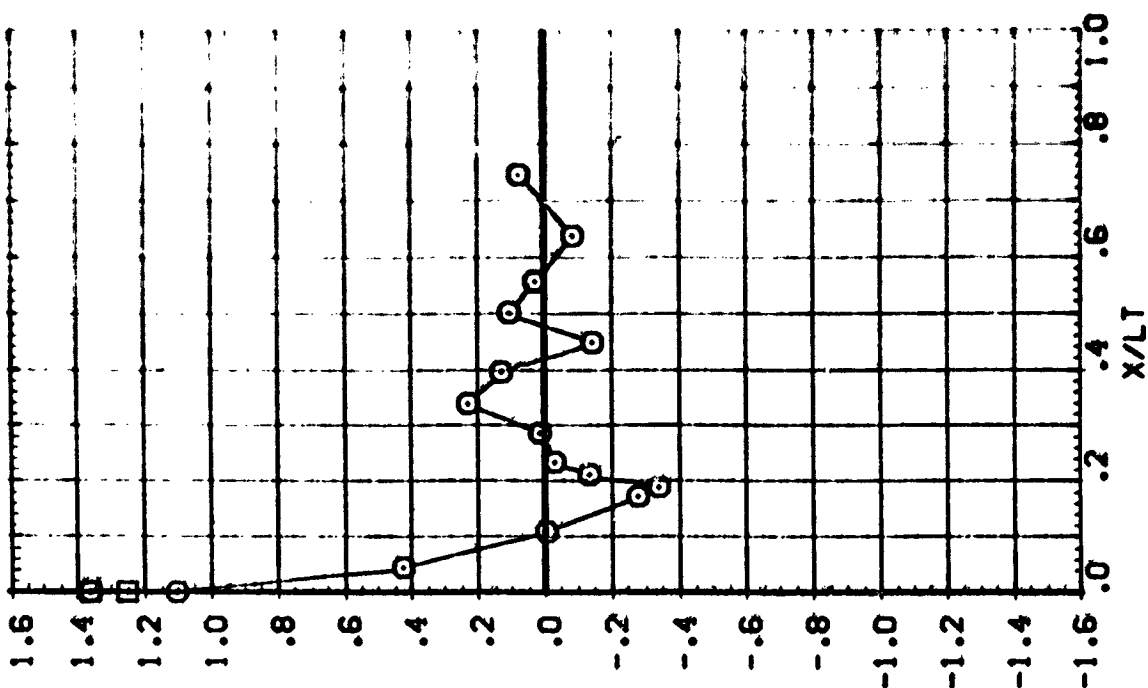
PMI 180.000
270.000

ALPHAT 4.020
8.010

MACH 1.248

PARAMETRIC VALUES
BETAT .000
GLODER .000
QLOSLR .000

.725
1.000

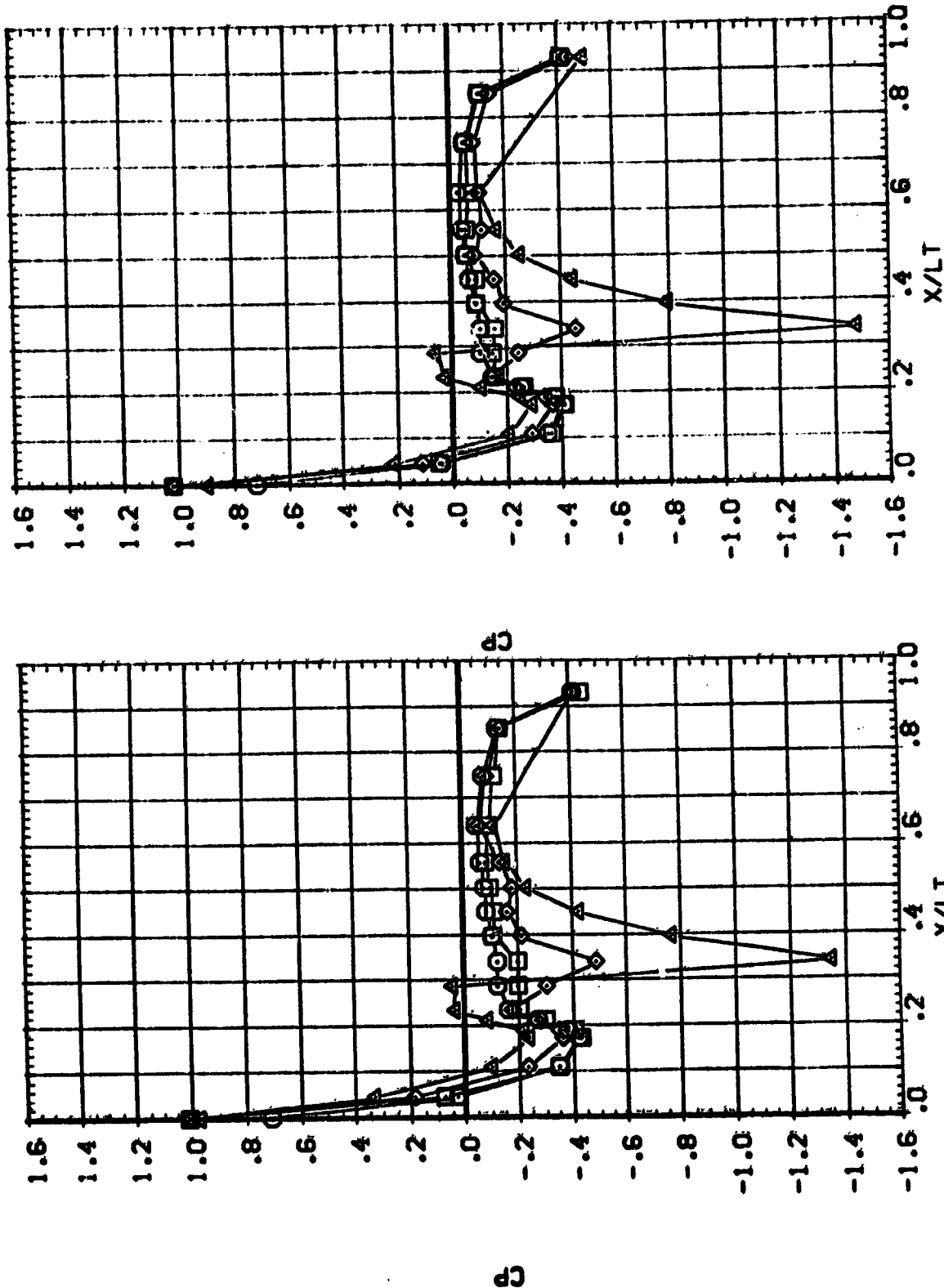


LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES



AMES 11-707 1A9 02A + S3 + T9 EXTERNAL TANK (RBMT03)

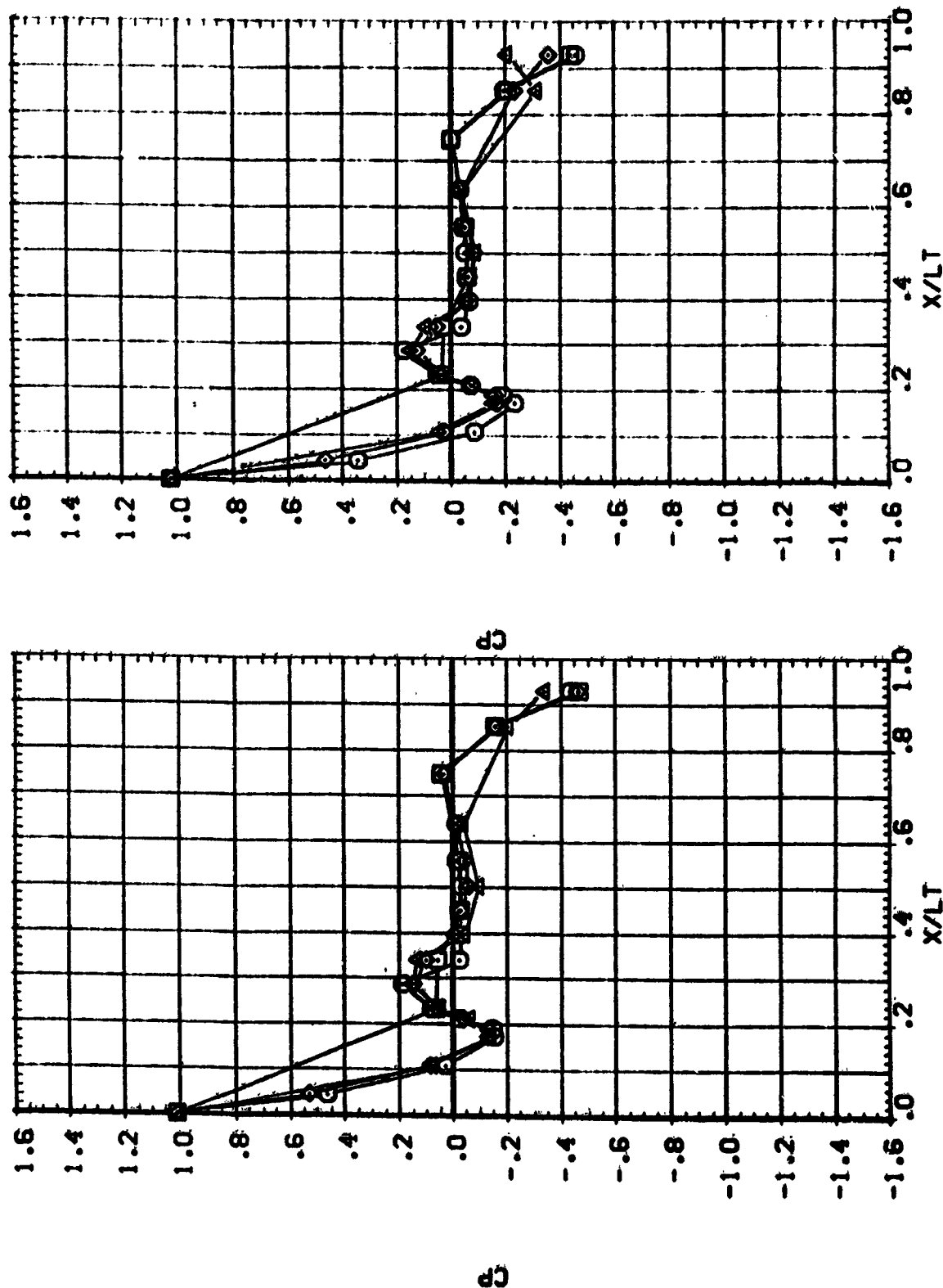
SYMBOL	PHI	BETAT	MACH	PARAMETRIC VALUES
○	.000	-4.020	.586	ALPHAT
□	30.000	.020		RUDDER
◇	60.000			RJFLR
△	90.000			
				OSBINC
				ELEVON
				.500
				.300



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 11-707 1A9 02A + S3 + T9 EXTERNAL TANK (RBMT03)

SYMBOL	F 1	BETAT	MACH	PARAMETRIC VALUES
□	120.000	-4.020	.596	ALPHAT
○	135.000	.020		RJDDER
◇	150.000			RJDFLR
△	165.000			

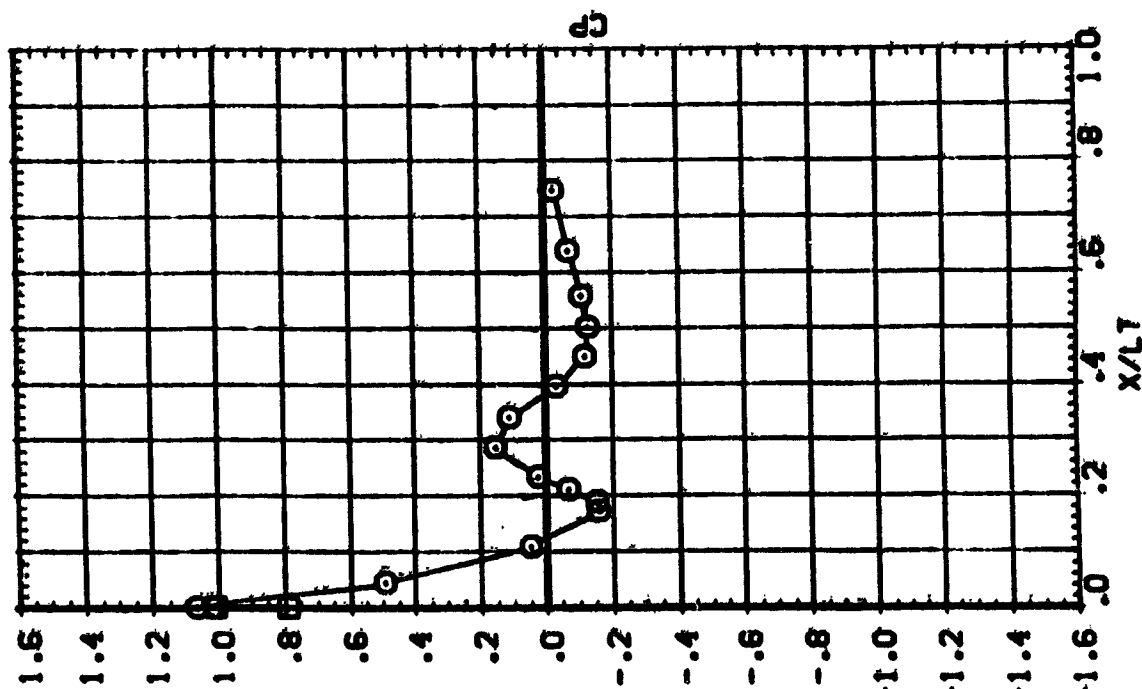
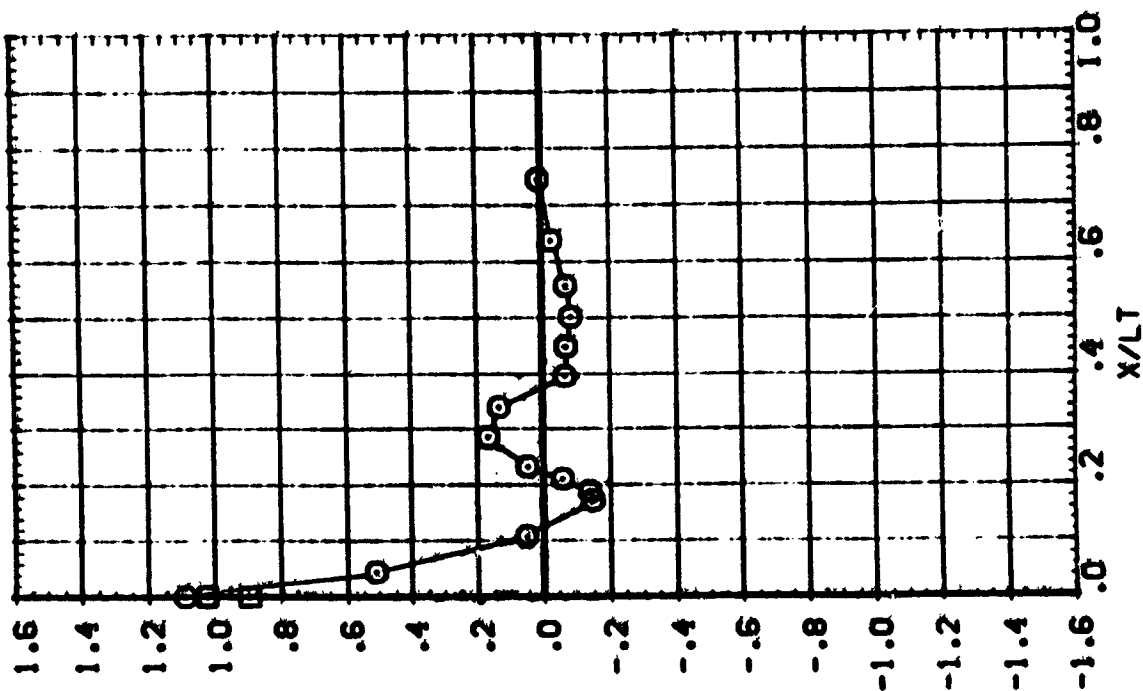


LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 11-707 1A9 C2A + S3 + T9 EXTERNAL TANK (RBMT03)

SPEED 180.000 270.000
 PH-1 180.000 270.000
 BETAT -4.020 .020
 MACH+ .596

PARAMETRIC VALUES
 ALPHA-7 -8.000 ORBITC .500
 RUDDER .000 ELEVCH .000
 RZFLR .000



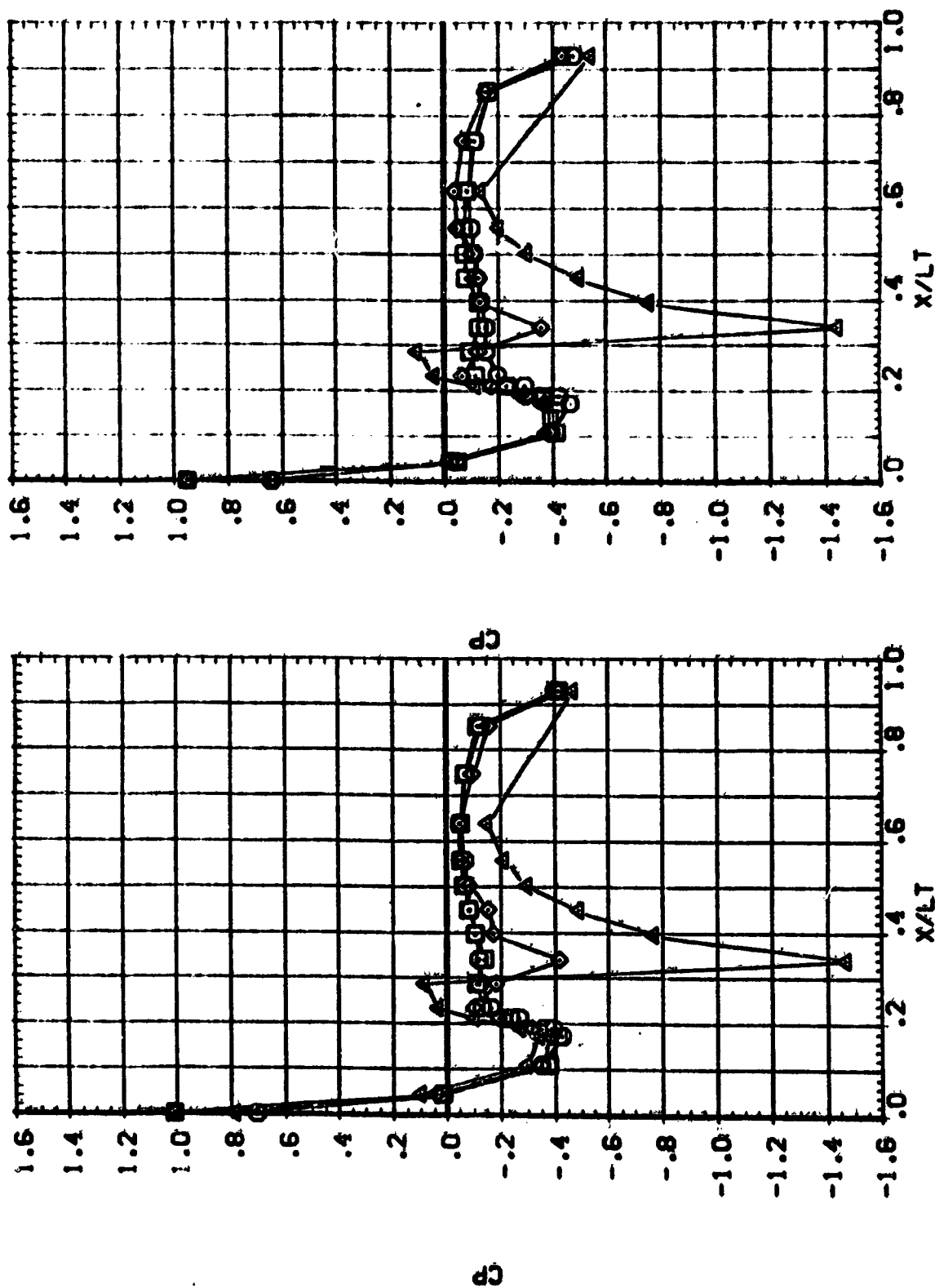
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 11-707 1A9 02A + S3 + 19 EXTERNAL TANK (RBM103)

SYMBOL
□ ◇ △

PMI BETAT MACH
0.000 4.100 .598
30.000 8.180
60.000
90.000

PARAMETRIC VALUES
ALPHAT -8.000 DRBINC .500
RUDDER .000 ELEVON .000
RUDFLR .000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES



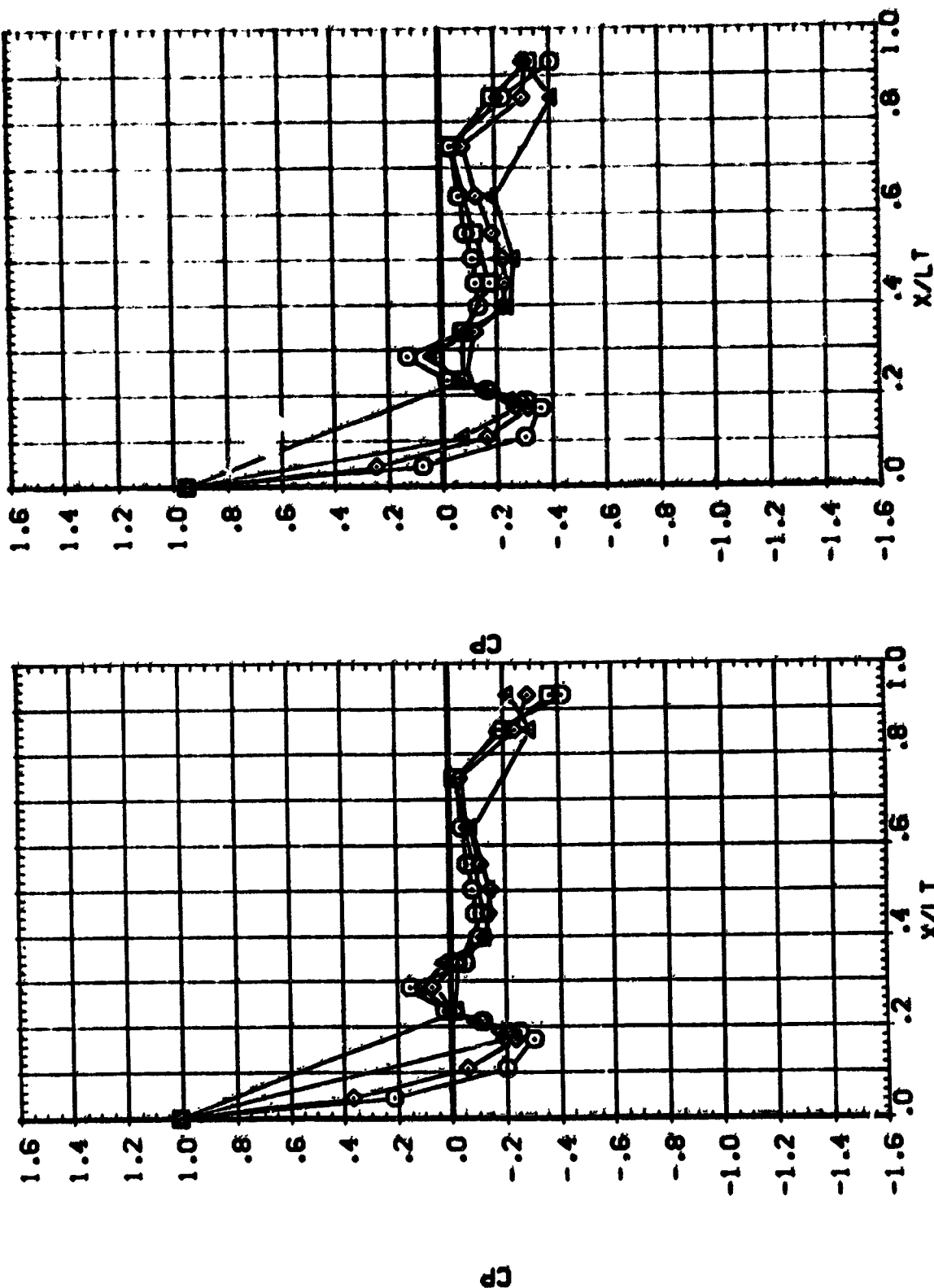
AMES 11-707 1A9 02A + S3 + T9 EXTERNAL TANK (RBM'03)

SYMBOL
 ○ □ ◇ △

PMI
 120,000
 135,000
 150,000
 165,000

BETA1 MACH
 4.100 .598
 8.180

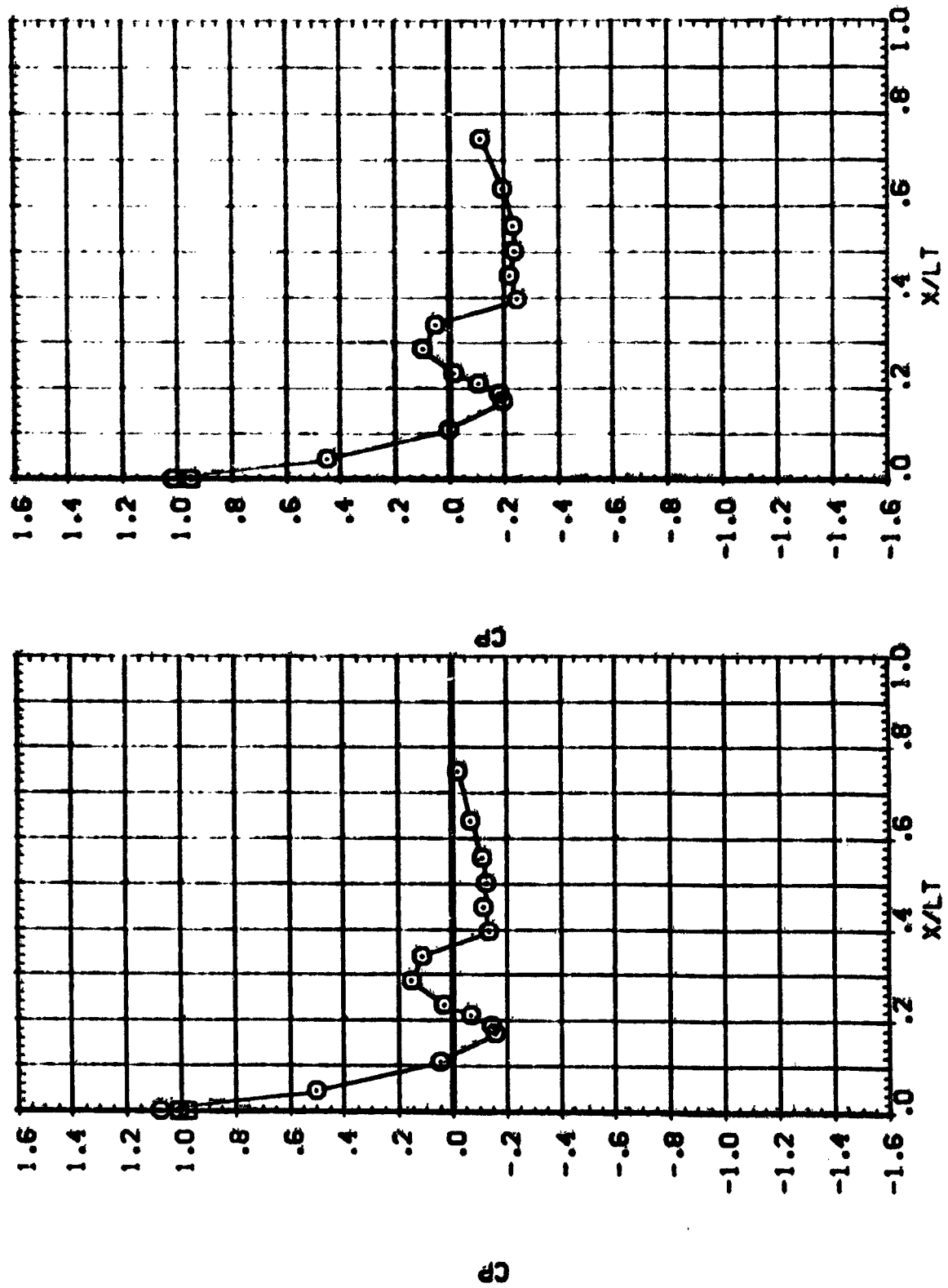
PARAMETRIC VALUES
 ALPHA7 .500
 RLOOR .000
 RDOFLR .000
 CRBINC .000
 ELEVON .000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 11-707 1A9 02A + S3 + T9 EXTERNAL TANK (RBY103)

SYMBOL	PMI	BETAT	MACH	PARAMETRIC VALUES
□	180.000	4.100	.500	ALPHAT
	270.000	8.180	.500	RUDDER
				RUDFLR
				ORBNIC
				ELEVON
				.000
				.000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES



AMES 11-707 1A9 02A + S3 + T9 EXTERNAL TANK (RBMTQ3)

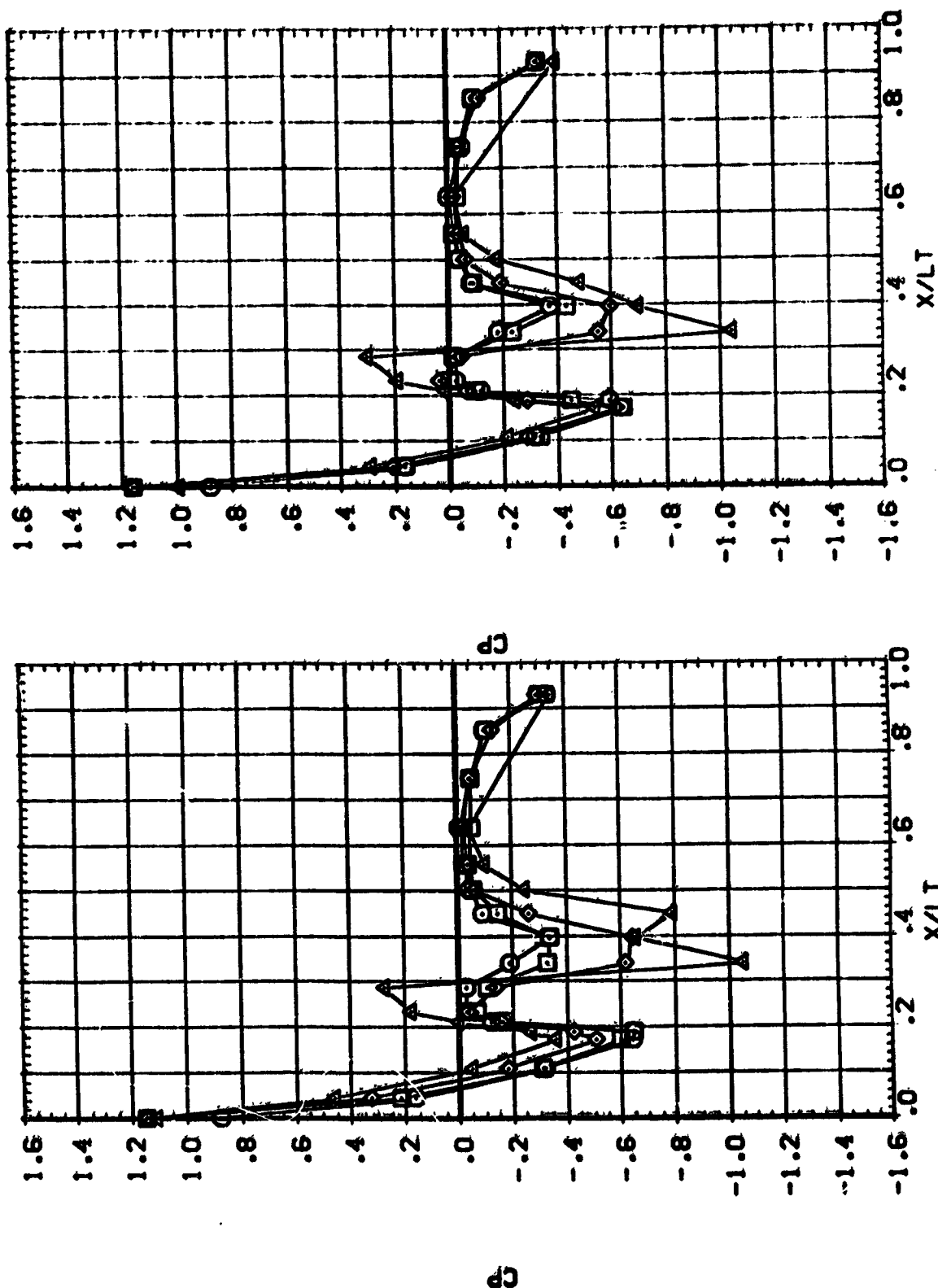
SPRNG
□ □ ◇ △

PHI .000
30.000
60.000
90.000

BETAT -4.050
2.080

MACH .900

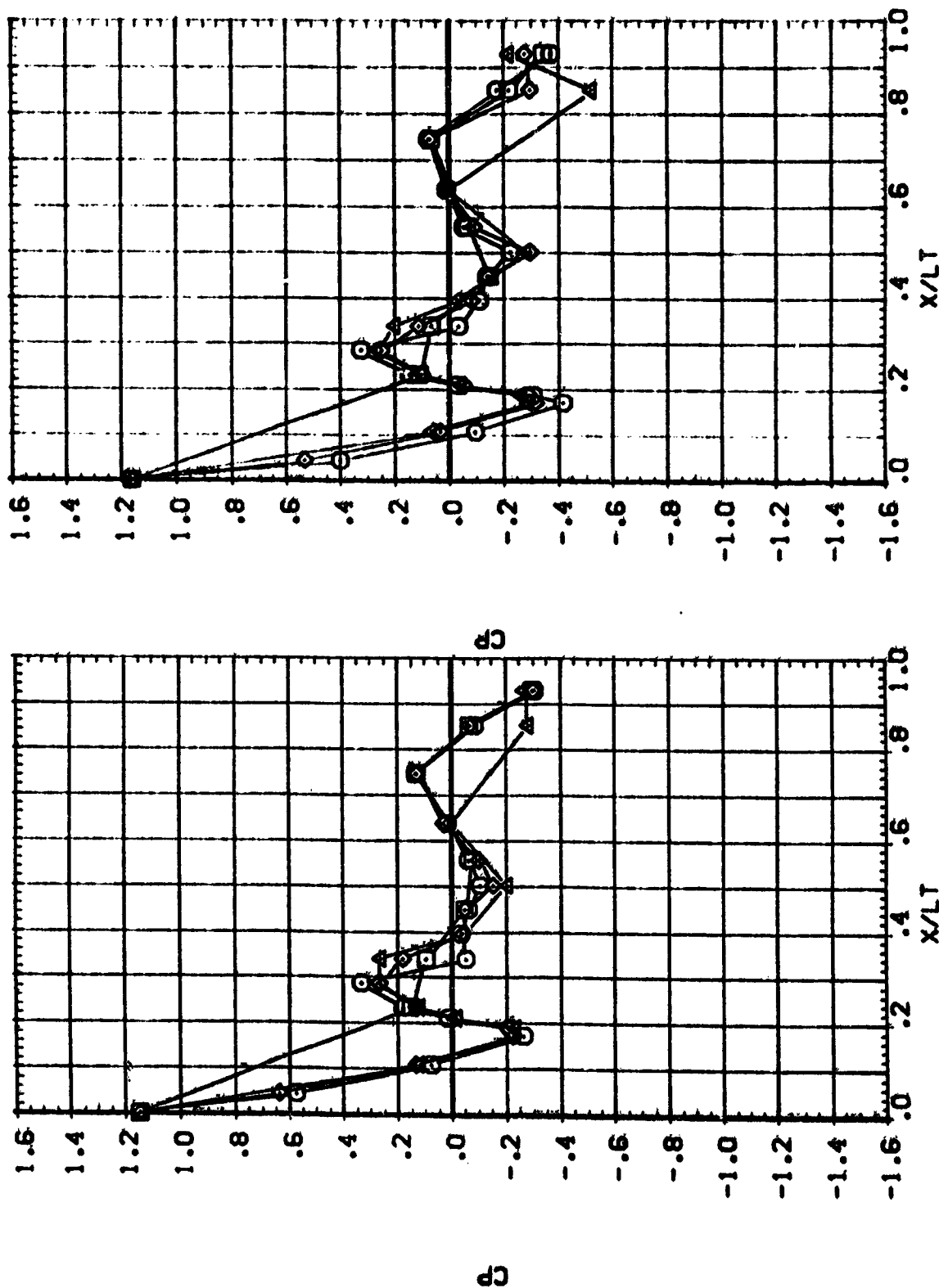
PARAMETRIC VALUES
ALPHA1 -8.000
RUDDER .000
RUOFLR .000
ORBITIC .500
ELEVON .000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 11-707 1A9 02A + S3 + T9 EXTERNAL TANK (RBMT03)

SYMBOL	PHI	BETAT	MACH	PARAMETRIC VALUES			
				ALPHA1	RODOR	ELEVEN	
□	120.000	-4.050	.500	-8.000	.000	.000	.500
◇	135.000	2.080					
△	150.000						
	165.000						



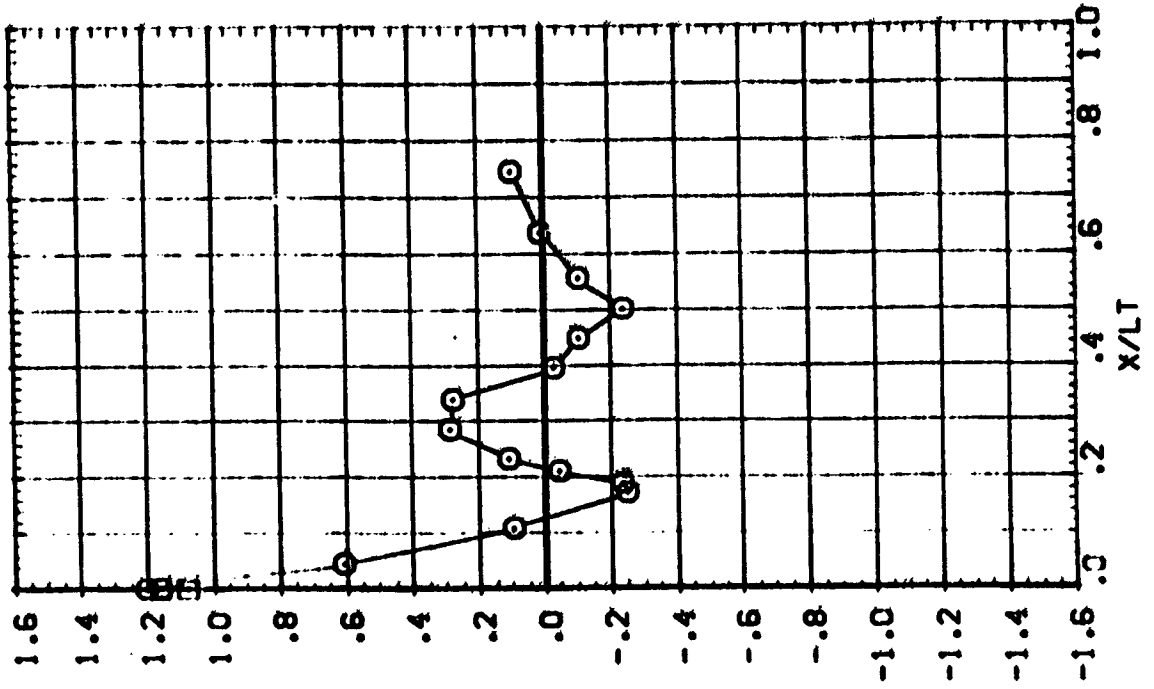
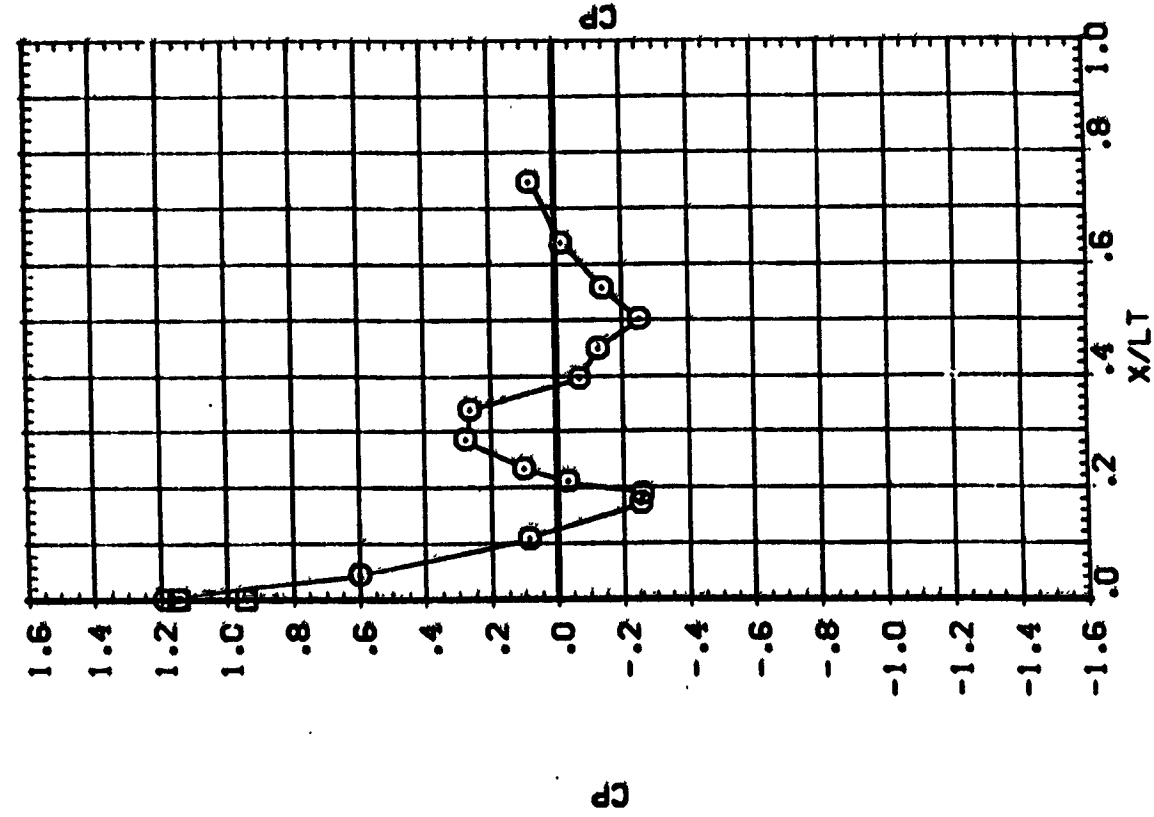
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES



AMES 11-707 1A9 02A + S3 + T9 EXTERNAL TANK (RBMT03)

SYMBOL PNI BETAT MACH
 180.000 -4.050 .900
 270.000 2.080

PARAMETRIC VALUES
 ALPHAT -8.000 ORBINC .500
 RUDDER .000 ELEVON .000
 RUFLR .000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 11-707 1A9 02A + S3 + 19 EXTERNAL TANK (RBMT03)

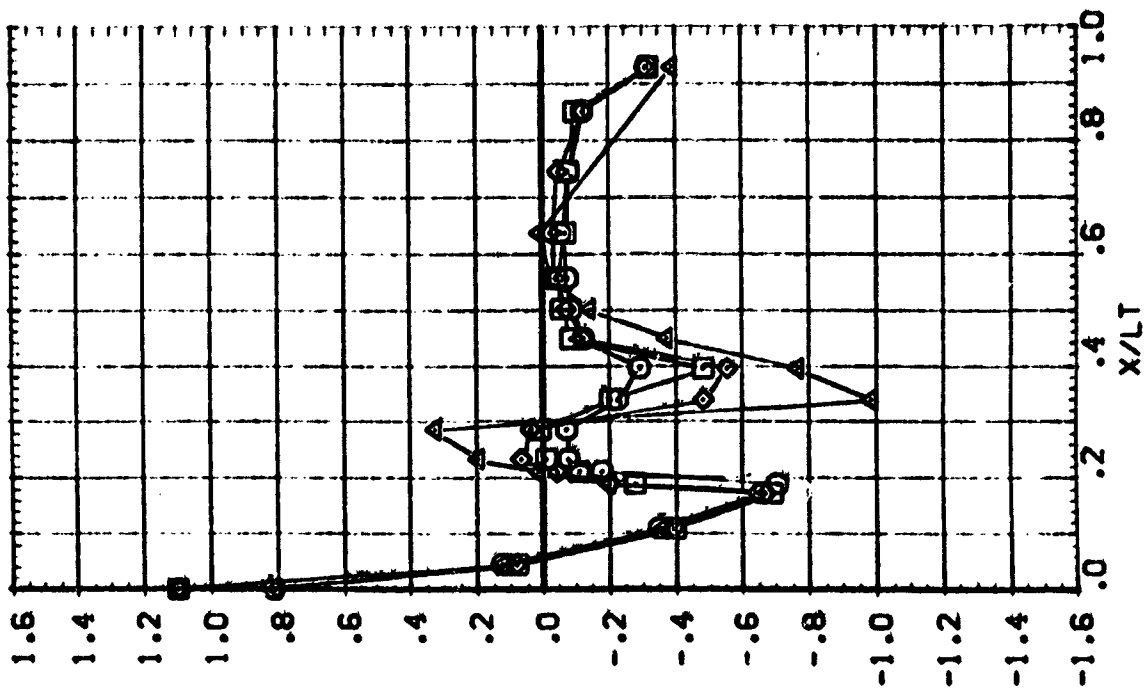
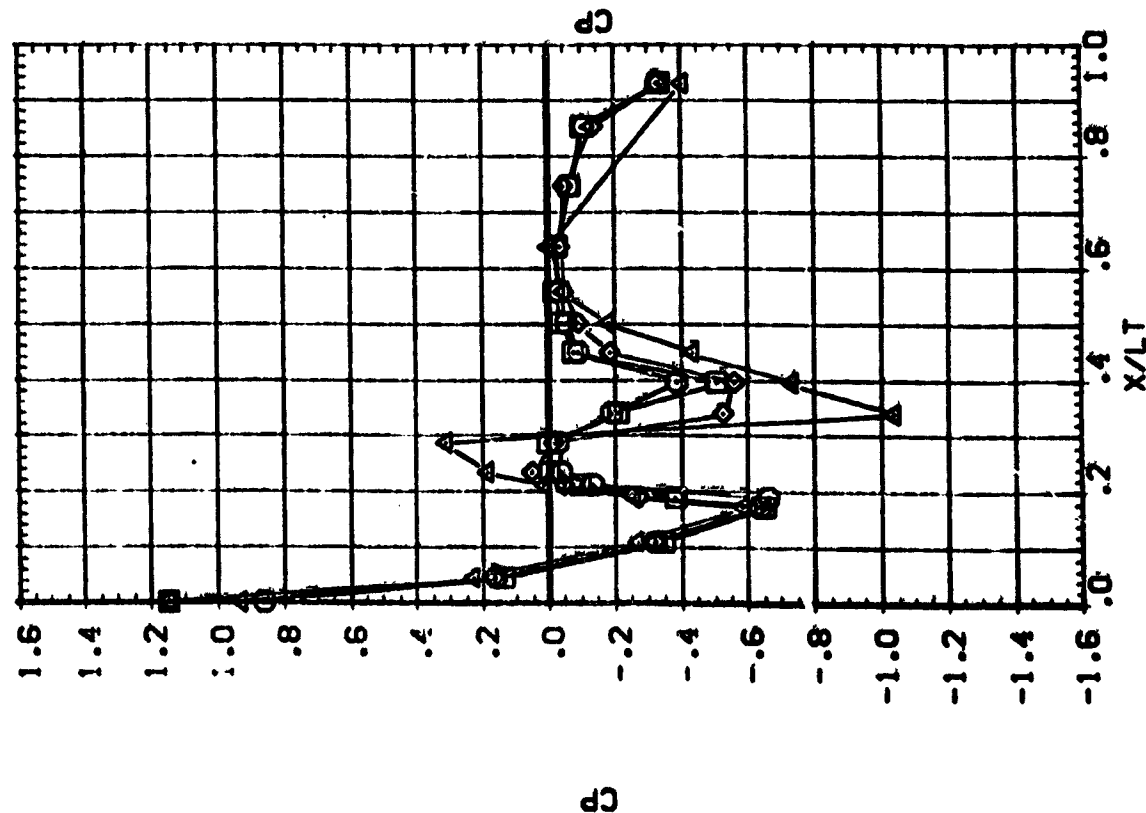
SYMBOL
 ○ □ ◇ △

PHI .000
 30.000
 60.000
 90.000

BETAT 4.140
 8.270

MACH .899

PARAMETRIC VALUES
 ALPHAT -8.000
 RUDDER .000
 RUDFLR .000
 CRBINC .500
 ELEVON .000



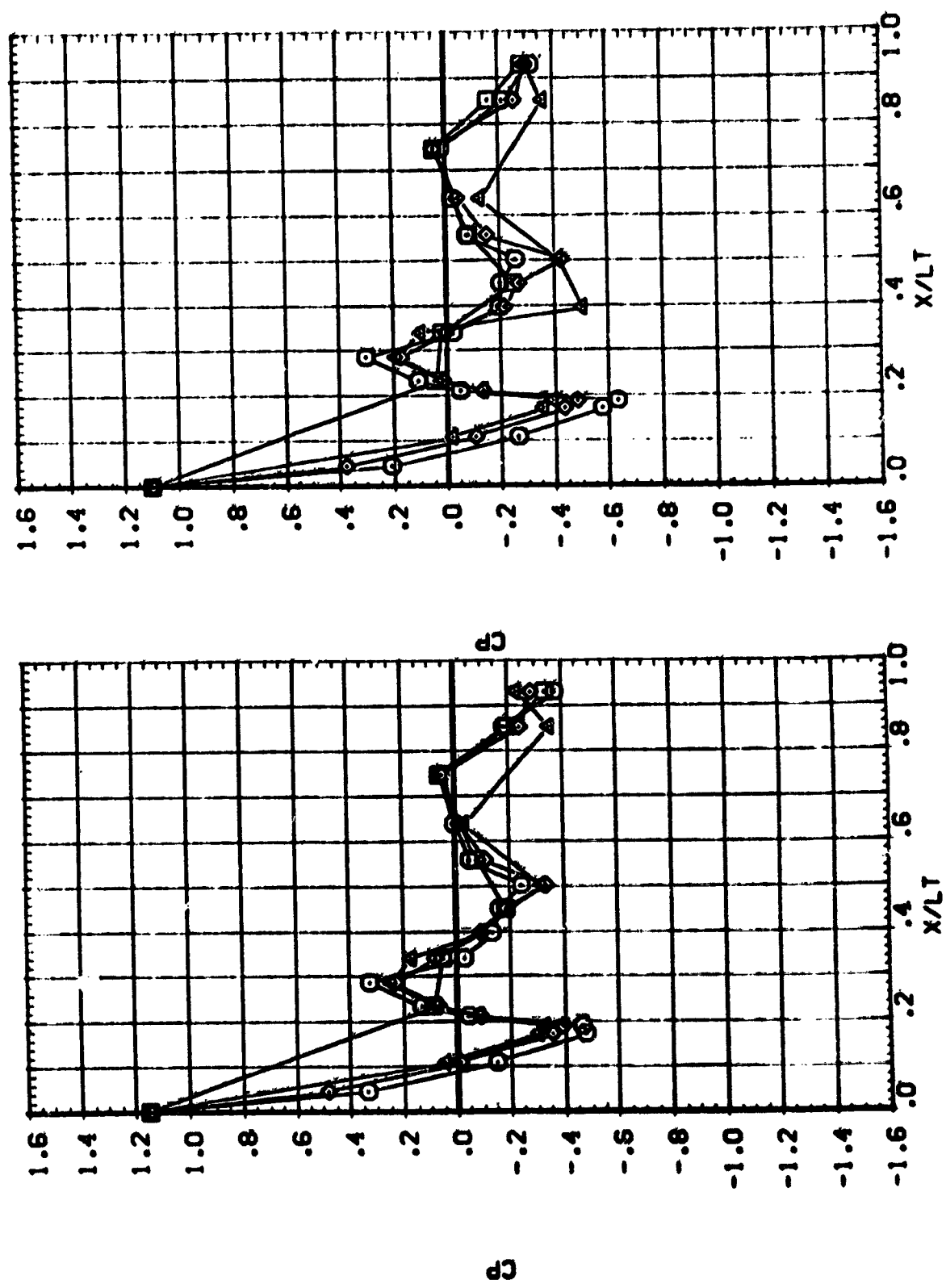
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES



AMEs 11-707 1A9 02A + S3 + T9 EXTERNAL TANK (RBMT03)

PM:	BETAT	MACH	PARAMETRIC VALUES
120.000	4.140	.898	-8.000 ORBINC
135.000	8.270		.000 ELEVON
150.000			.000
165.000			

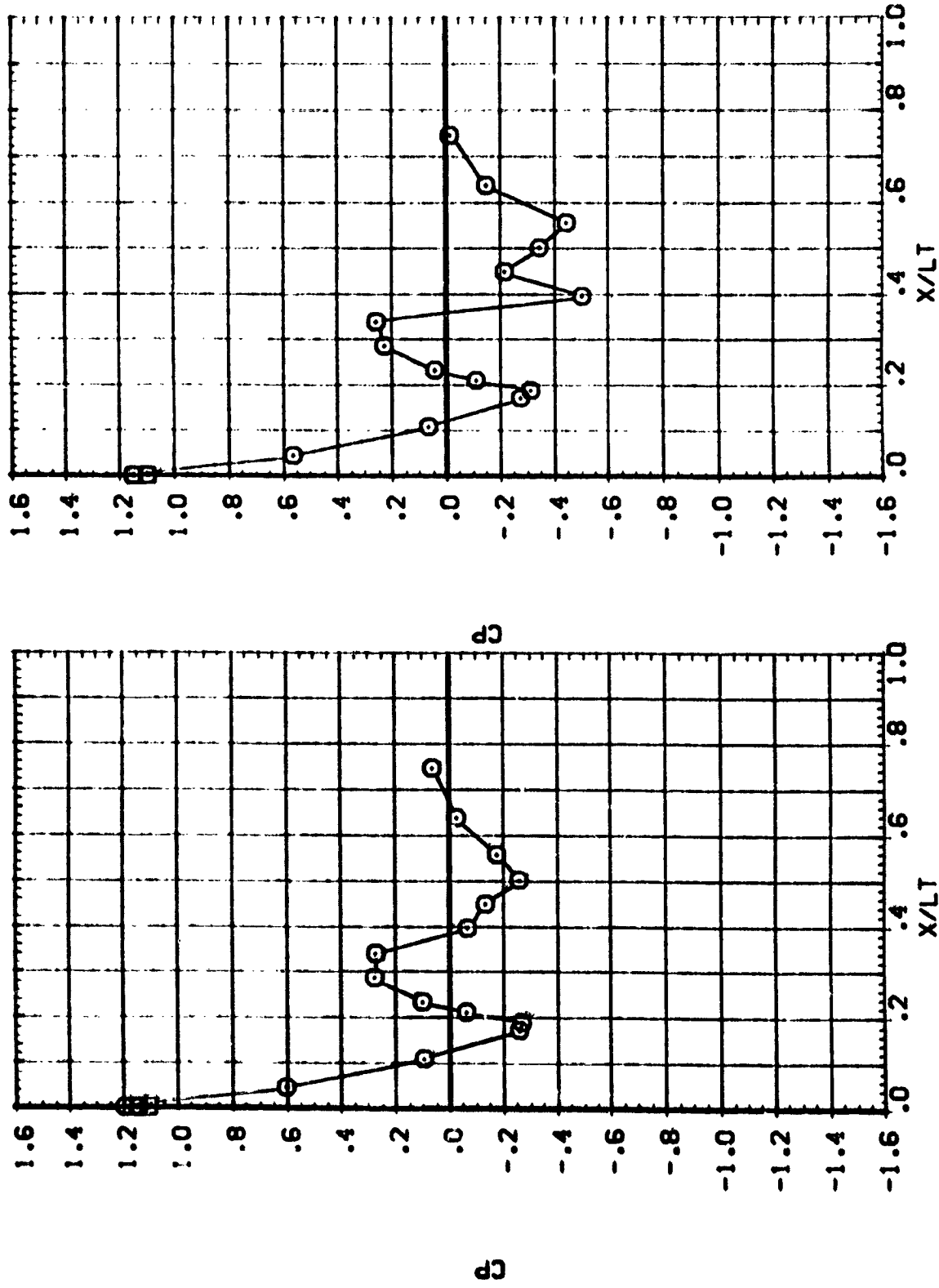
SYMBOL
 O I Δ



DEFLECTION DISTRIBUTION OF EXTERNAL TANK DEFLECTION

AVES : -707 149 02A + S3 + 19 EXTERNAL TANK (RBMT03)

SYMBOL	PA	BETA	WAC	PARAMETRIC VALUES
01	180.000	4.140	.658	-8.000 ORBINC .500
	275.000	8.270		.000 ELEVON .000
				ALPHA
				RUDER
				RULR



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES



AMES 11-707 1A9 02A + S3 + T9 EXTERNAL TANK (RBMT03)

SYMBOL
○ □ ◇ △

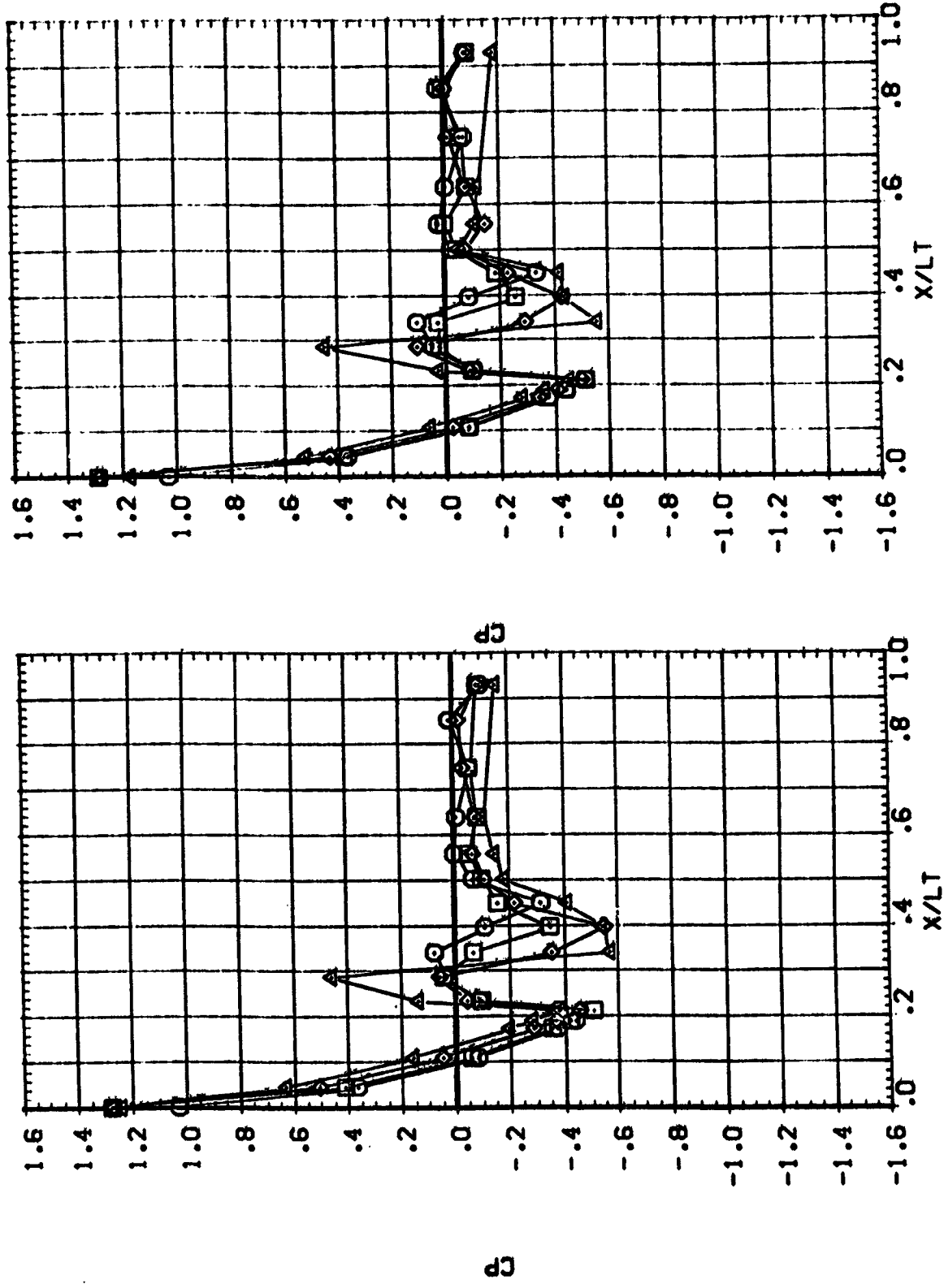
PHI .000
30.000
60.000
90.000

BETAT -4.080
.020

MACH 1.102

PARAMETRIC VALUES
ALPHAT -8.000
RJOER .000
RJOFLR .000

ORBIN .500
ELEVON .000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

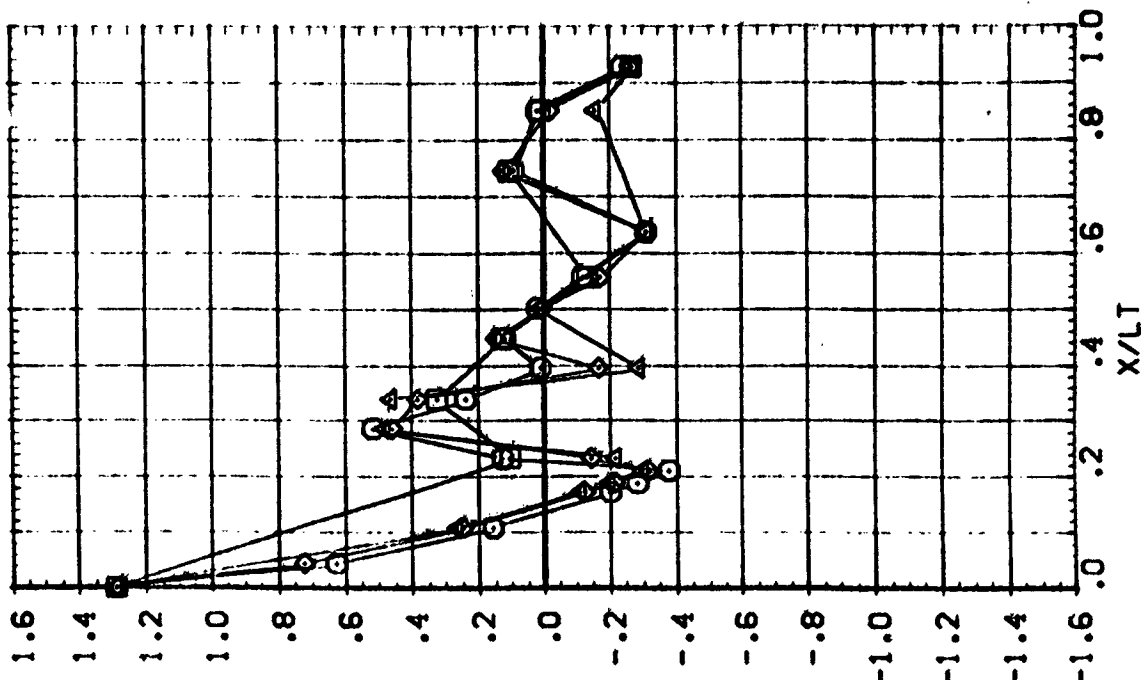
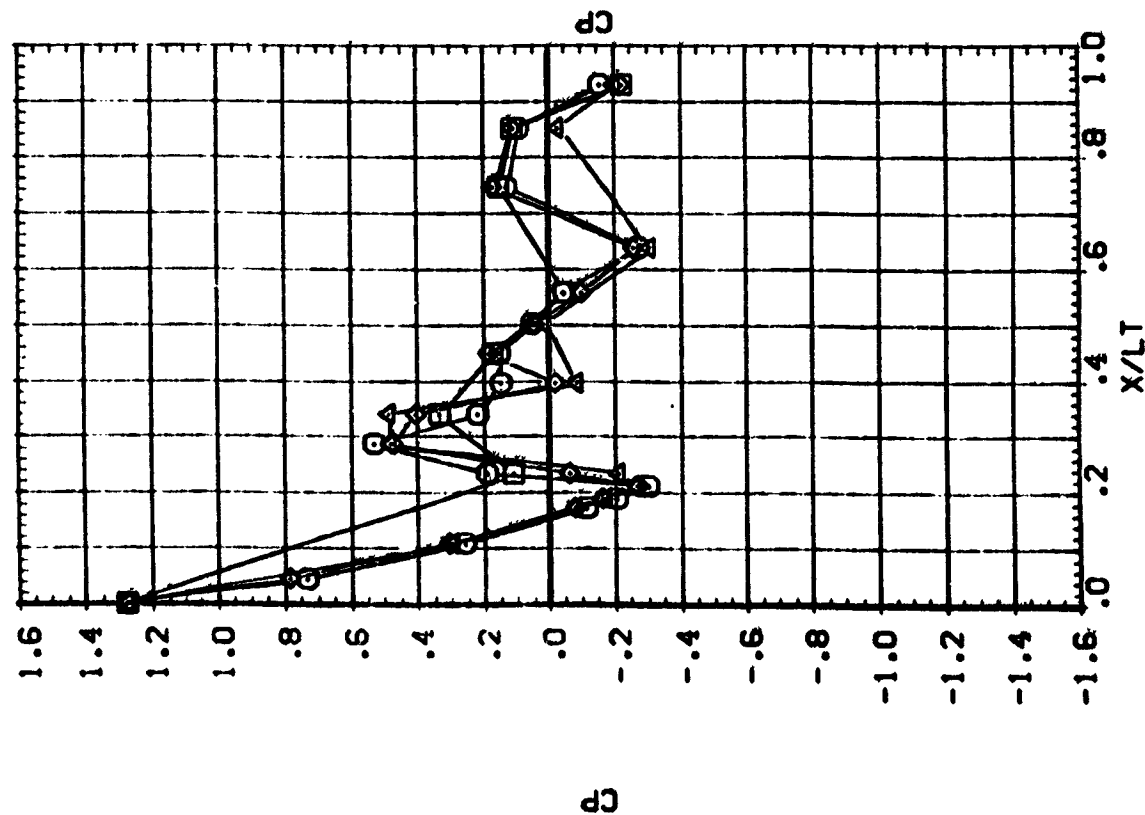
SYMBOL
 O I Δ

PHI
 120.000
 135.000
 150.000
 165.000

BETAT
 -4.080
 .020

MACH
 1.102

PARAMETRIC VALUES
 ALPHAT
 R00ER
 R00FLR
 -8.000
 .000
 .000
 DRBINC
 ELEVON
 .500
 .000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES



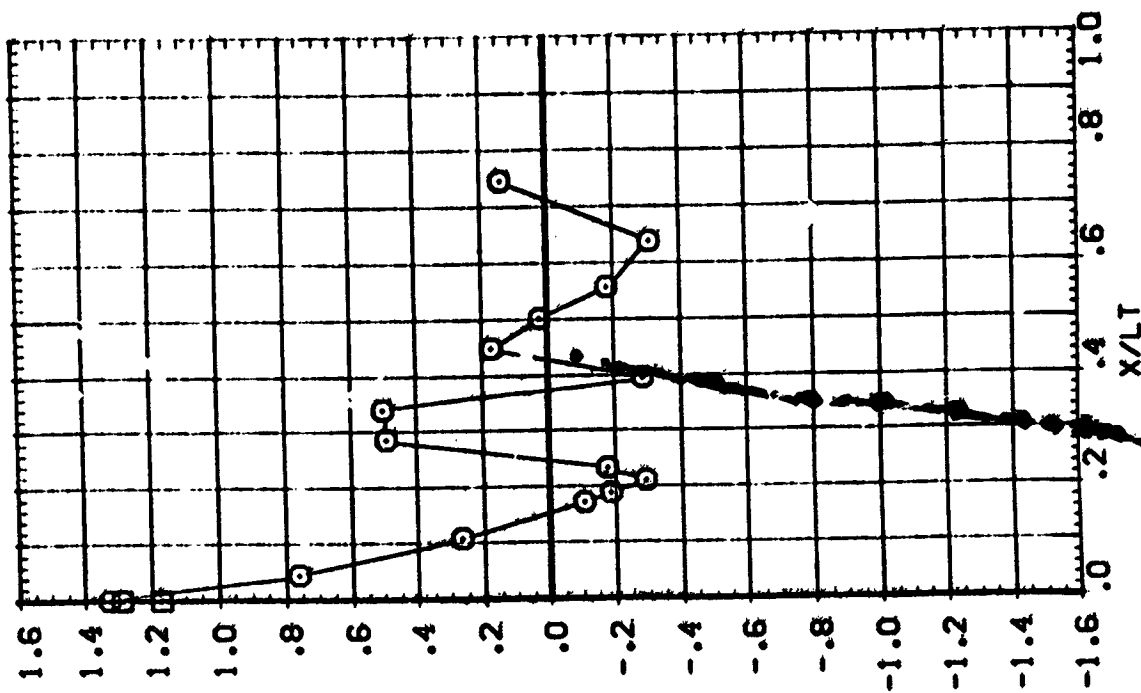
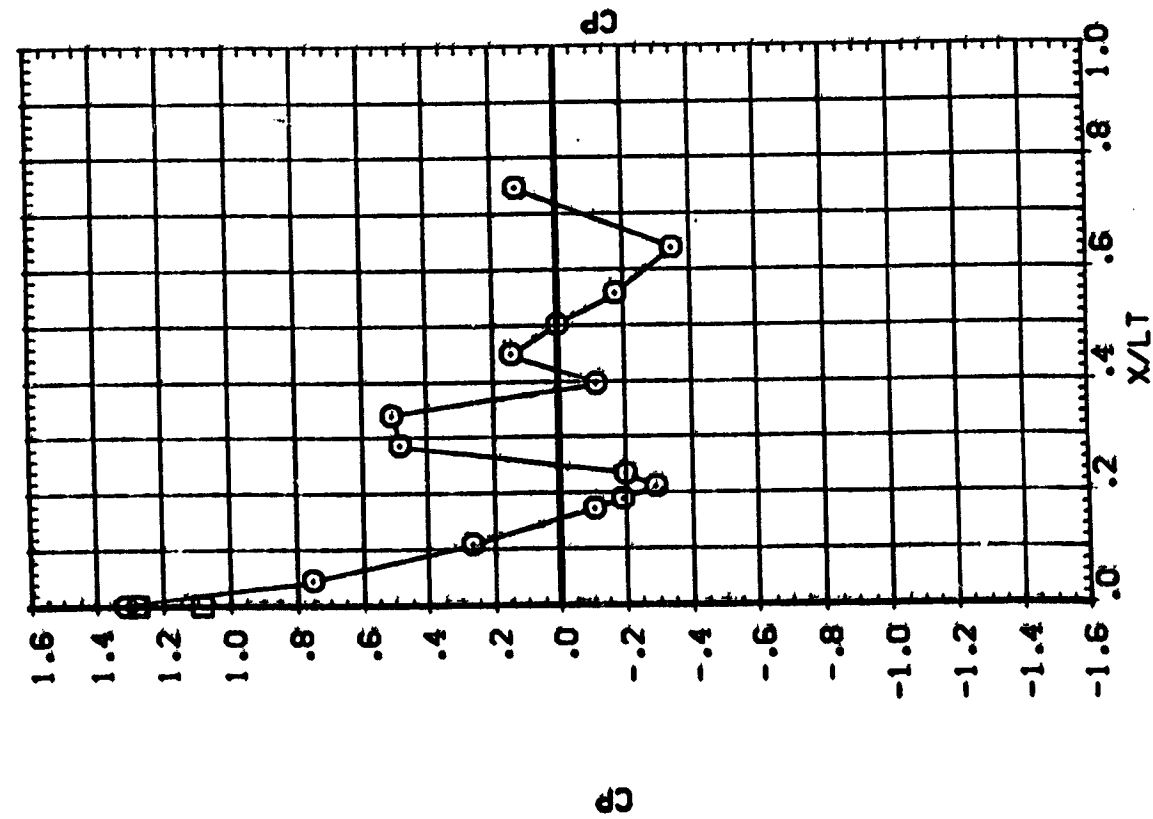
AMES 11-707 1A9 02A + S3 + T9 EXTERNAL TANK

RBMT03)

SYMBOL
□

PA-1 180.000
BETAT -4.000
MACH 1.102

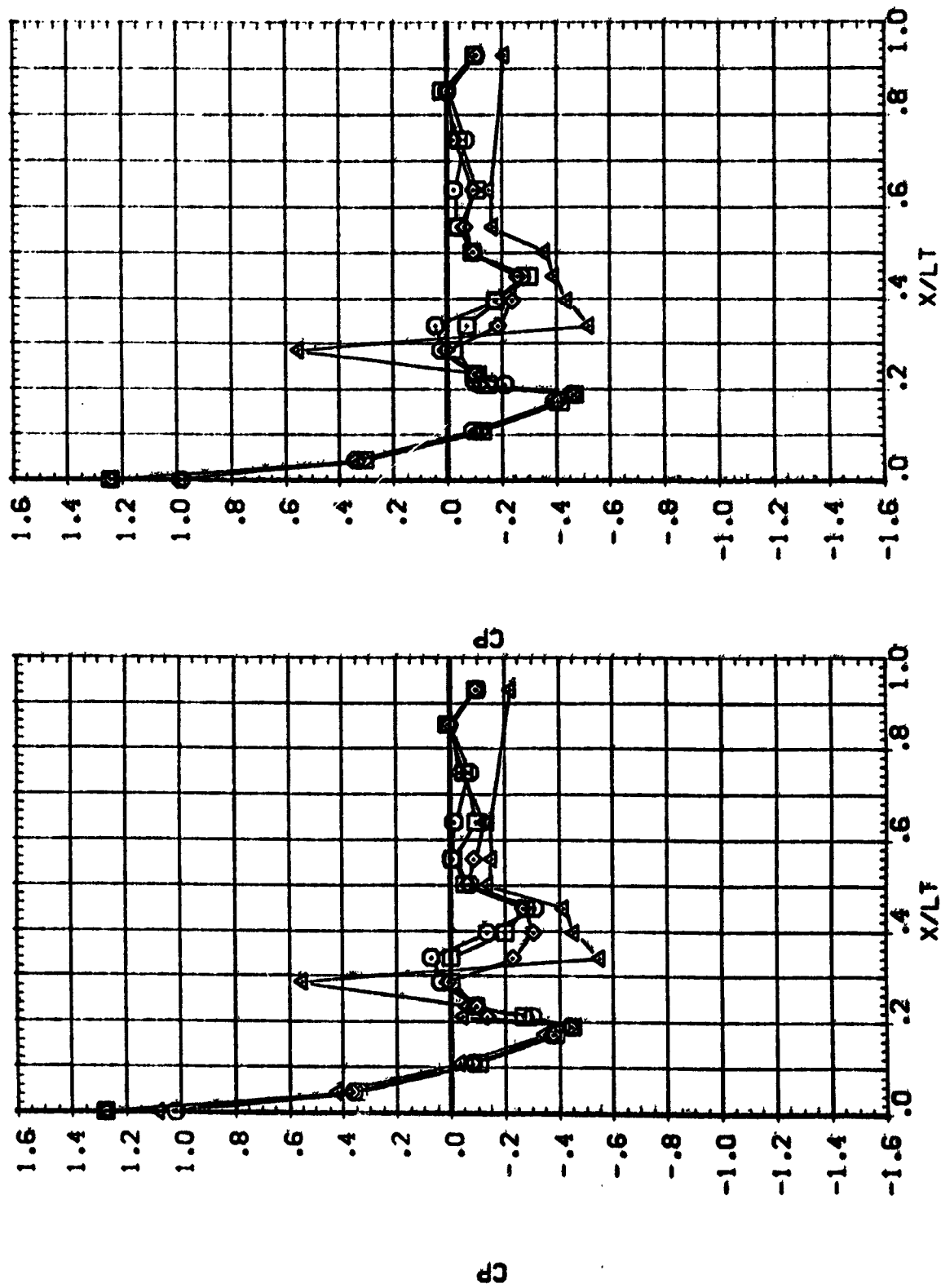
PARAMETRIC VALUES
ALPHA1 -8.000
RUDER .000
R2FLR .000
ORBINC .500
ELEVON .000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 11-707 1A9 02A + S3 + T9 EXTERNAL TANK [RBMT03]

PHI	BETAT	MACH	PARAMETRIC VALUES
.000	4.160	1.100	ALPHAT
30.000	7.800		RJDDER
60.000			RJDFLR
90.000			
			-8.000
			ORBINC
			.000
			ELEVON
			.000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES



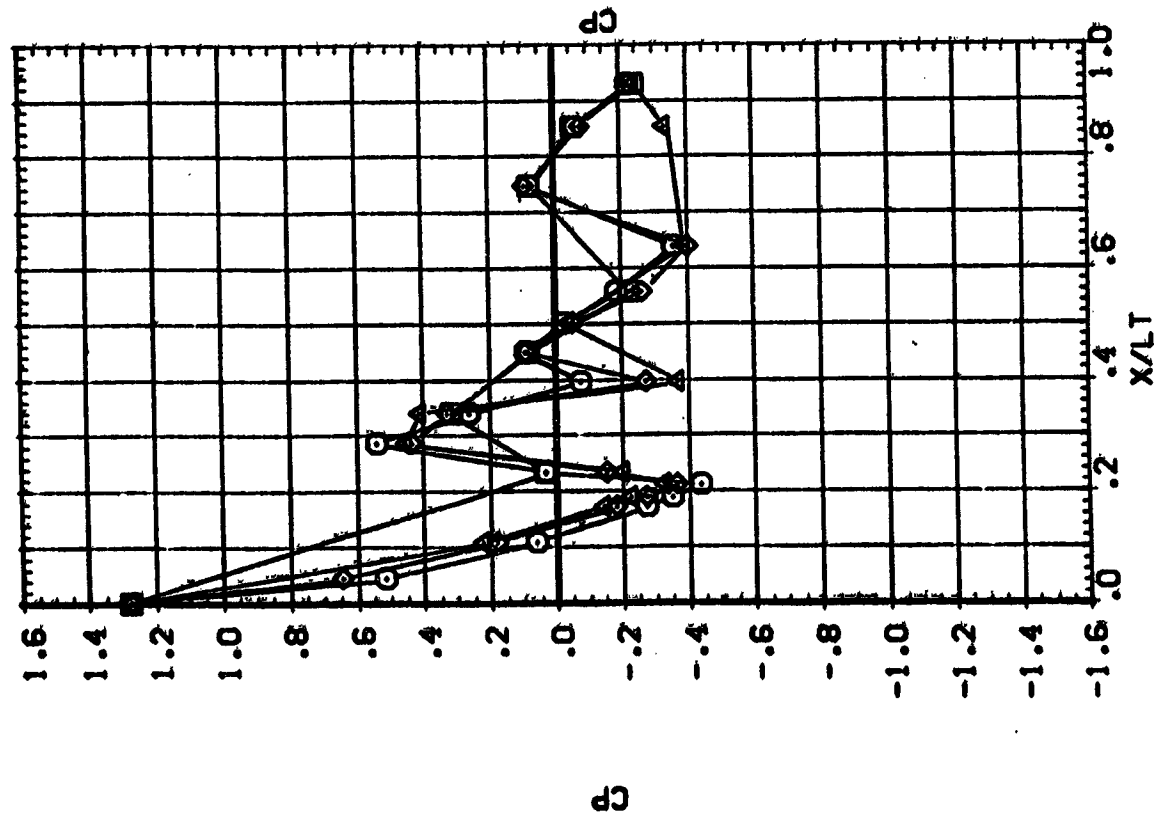
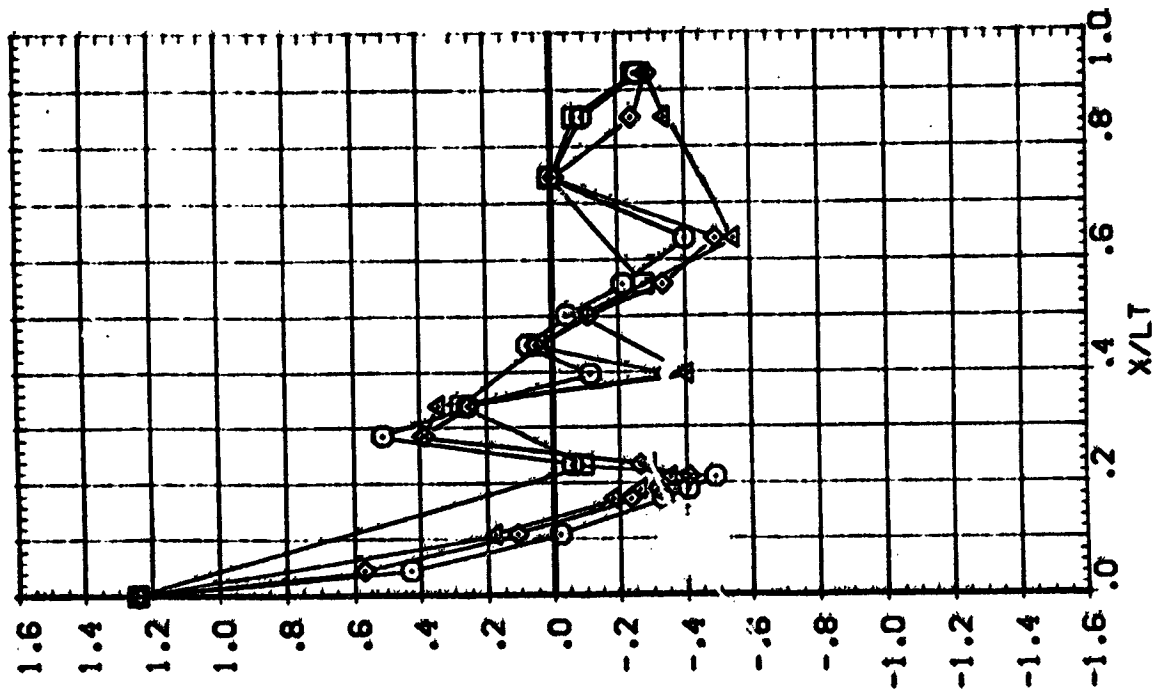
AMES 11-707 1A9 02A + S3 + T9 EXTERNAL TANK (RBMT03)

SYMBOL
○ □ ◇ △

PHI
120.000
135.000
150.000
165.000

BETAT MACH
4.160 1.100
7.800

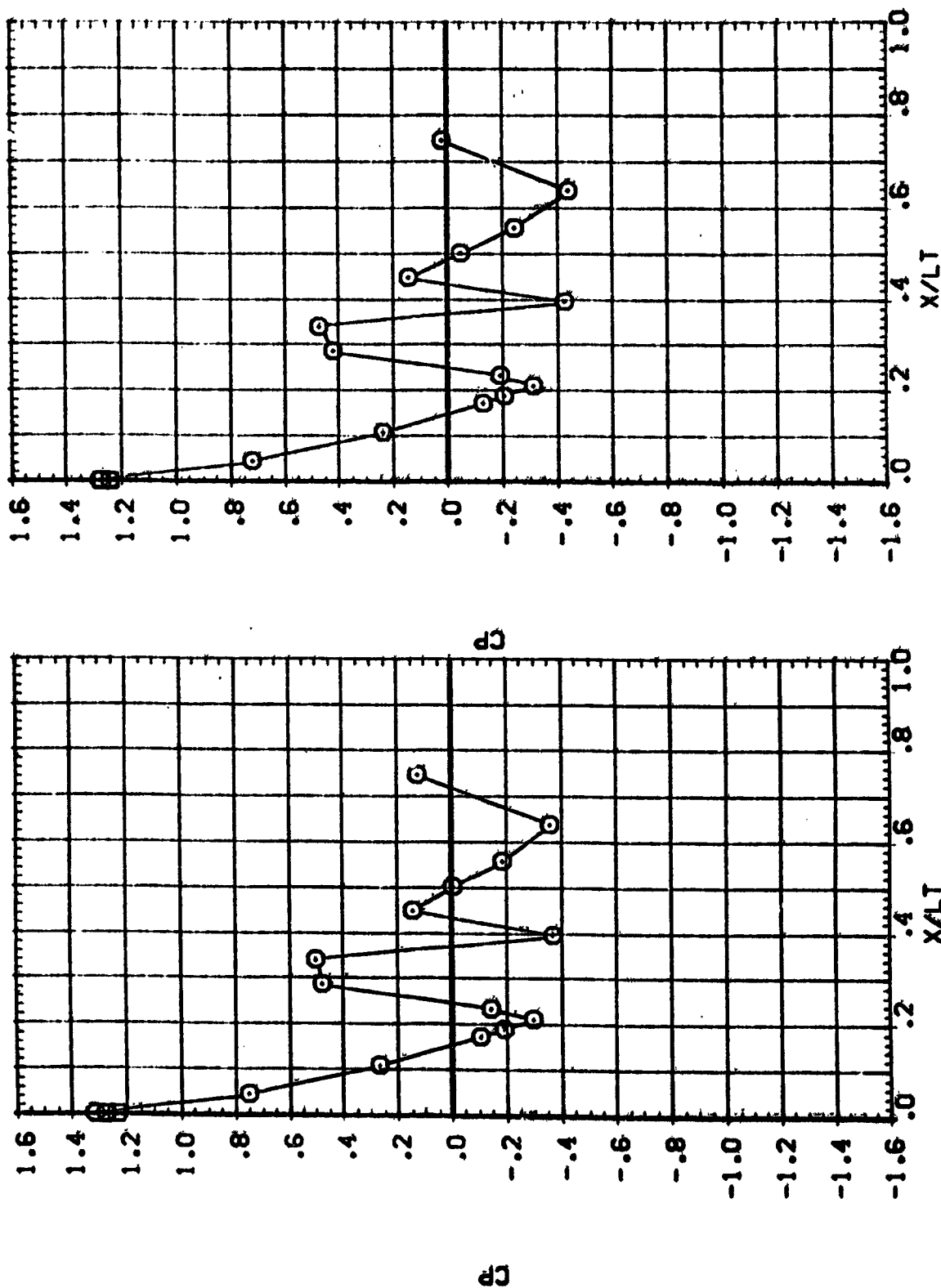
PARAMETRIC VALUES
ALPHAAT -8.000 DRBINC .500
RUDDER .000 ELEVON .000
RUOFLR .000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 11-707 1A9 02A + S3 + T9 EXTERNAL TANK (RBMT03)

SYMBOL	PHI	BETAT	MACH	PARAMETRIC VALUES		
□	180.000	4.160	1.100	ALPHAT	-8.000	ORBITC
□	270.000	7.800		RJDDER	.000	ELEVON
				RJDFLR	.000	



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

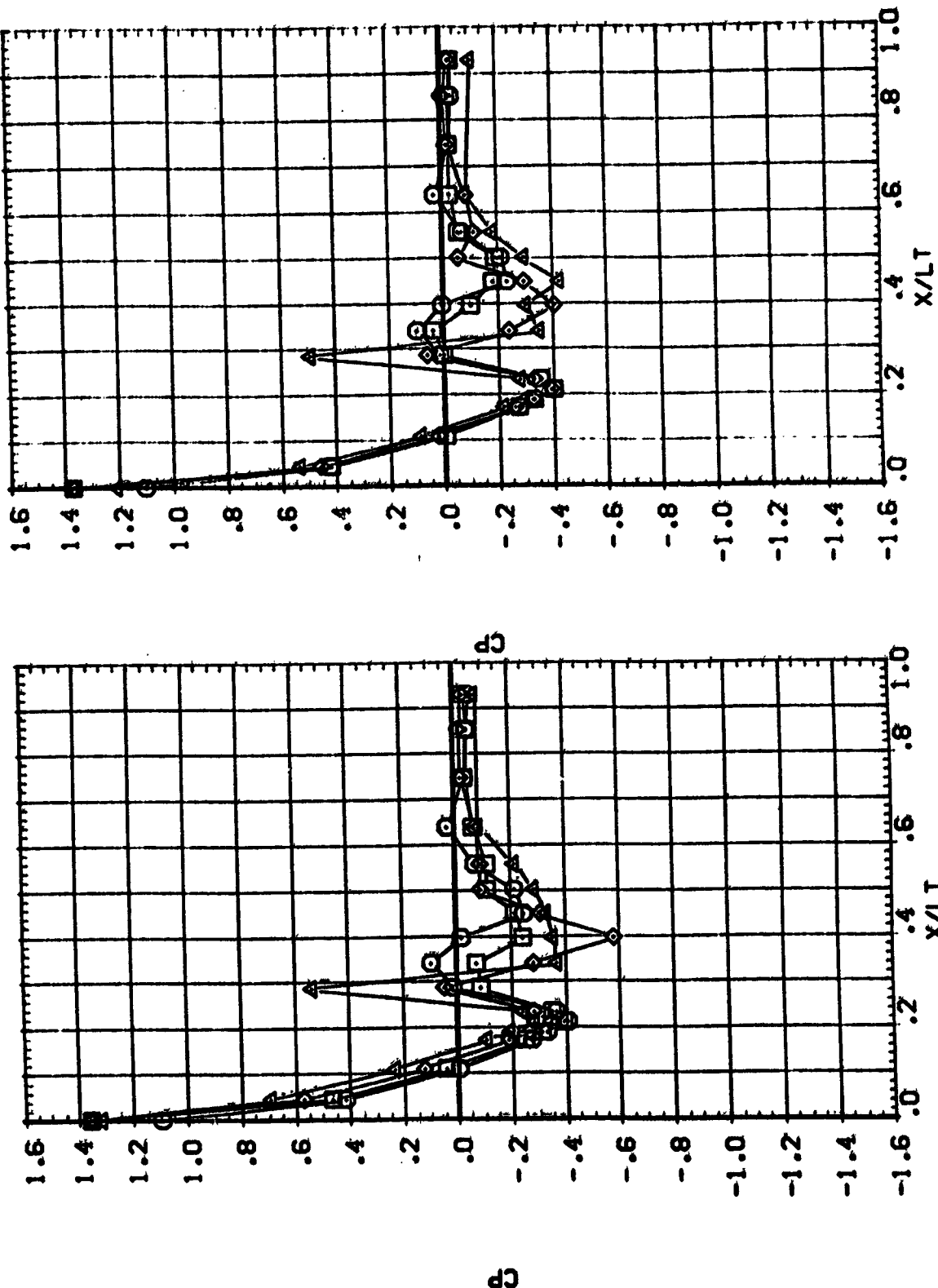


AMES 11-707 1A9 02A + S3 + T9 EXTERNAL TANK (RBMT03)

SYMBOL
 ○ □ ◇ △

PR1 BETAT MACH
 .000 -4.050 1.245
 30.000 2.080
 60.000
 90.000

PARAMETRIC VALUES
 ALPHAT DRBINC .500
 RUDDER .000 ELEVON .000
 RUOFLR .000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 11-707 1A9 02A + S3 + T9 EXTERNAL TANK (RBMT03)

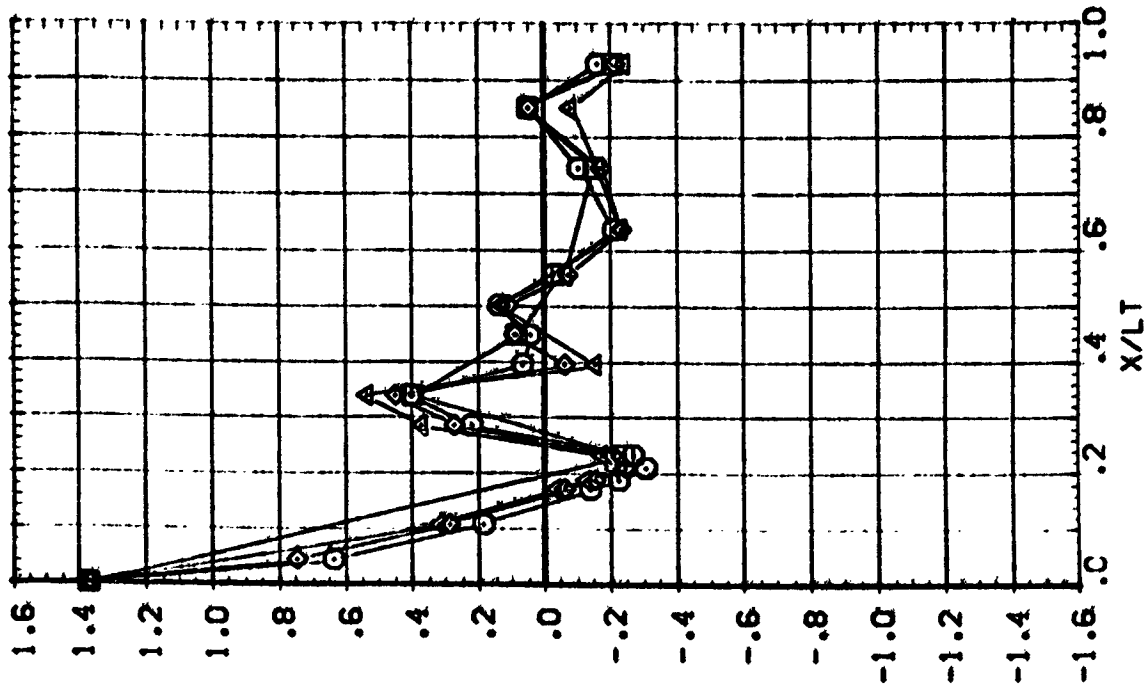
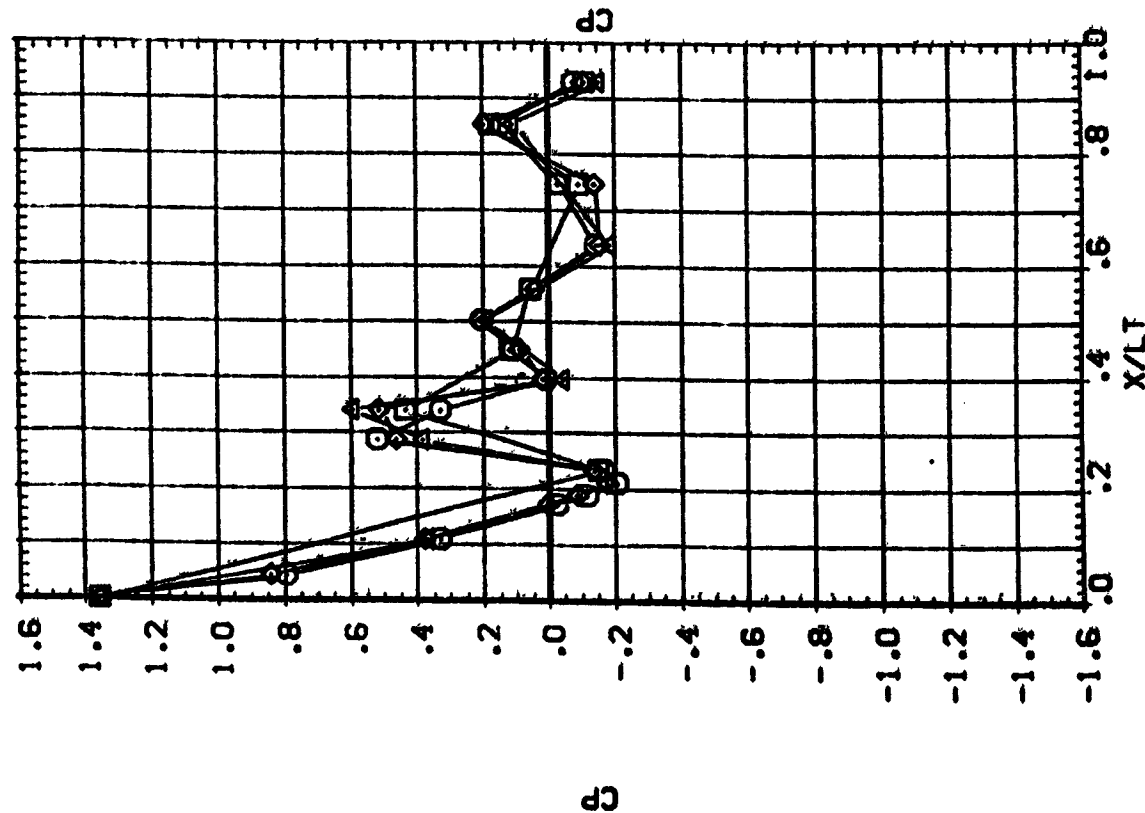
SYMBOL
 ○ □ ◇ △

PHI
 120.000
 135.000
 150.000
 165.000

BETAT
 -4.050
 2.080

NACH
 1.245

PARAMETRIC VALUES
 ALPHA1
 READER
 RLOFLR
 -8.000
 .000
 .000
 CRBINC
 ELEVON
 .500
 .000



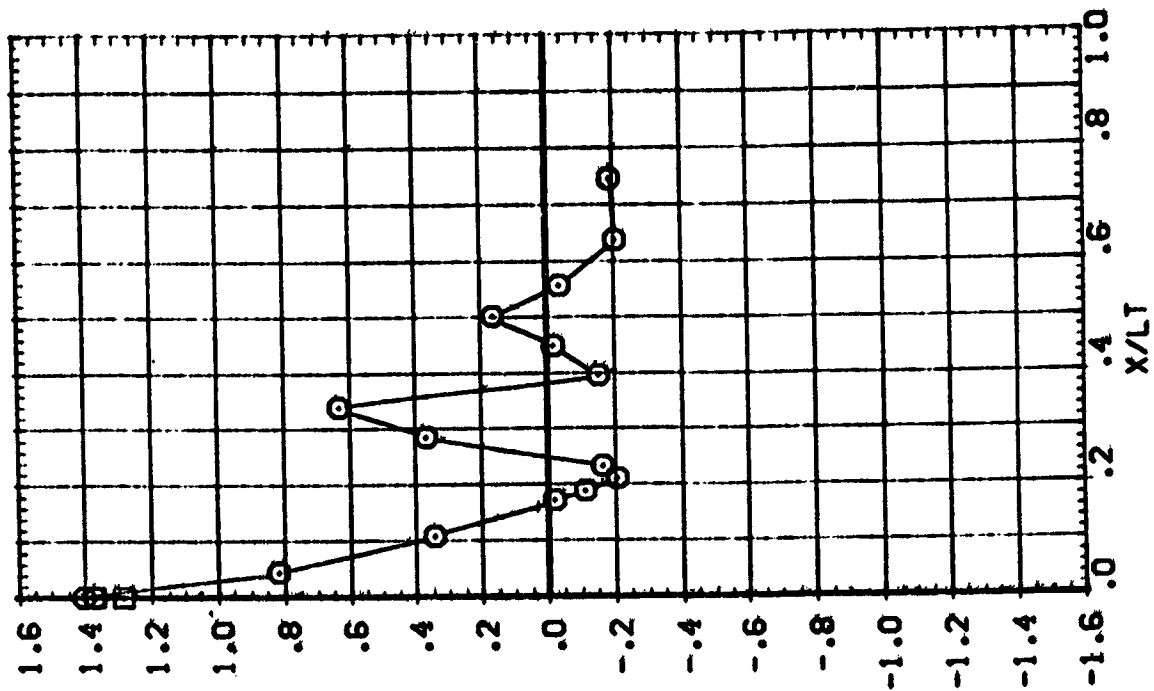
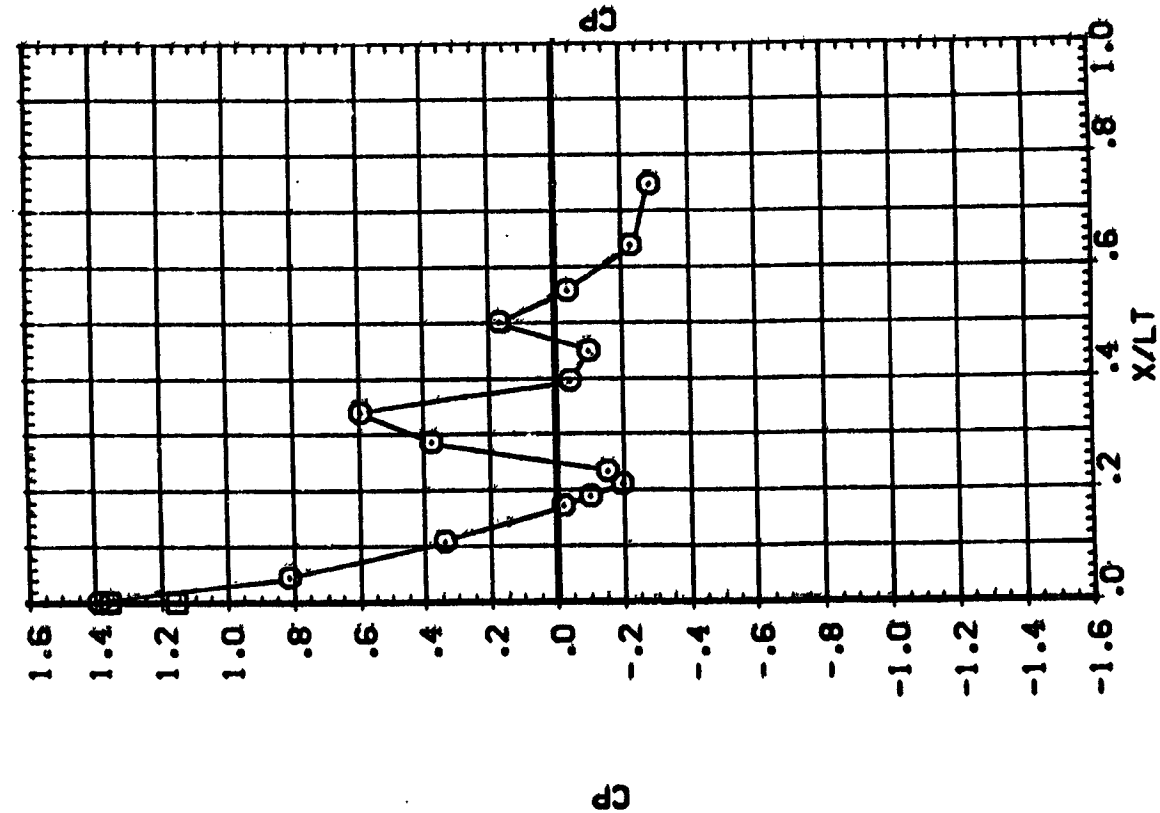
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES



AMES 11-707 1A9 02A + S3 + T9 EXTERNAL TANK (RBMT03)

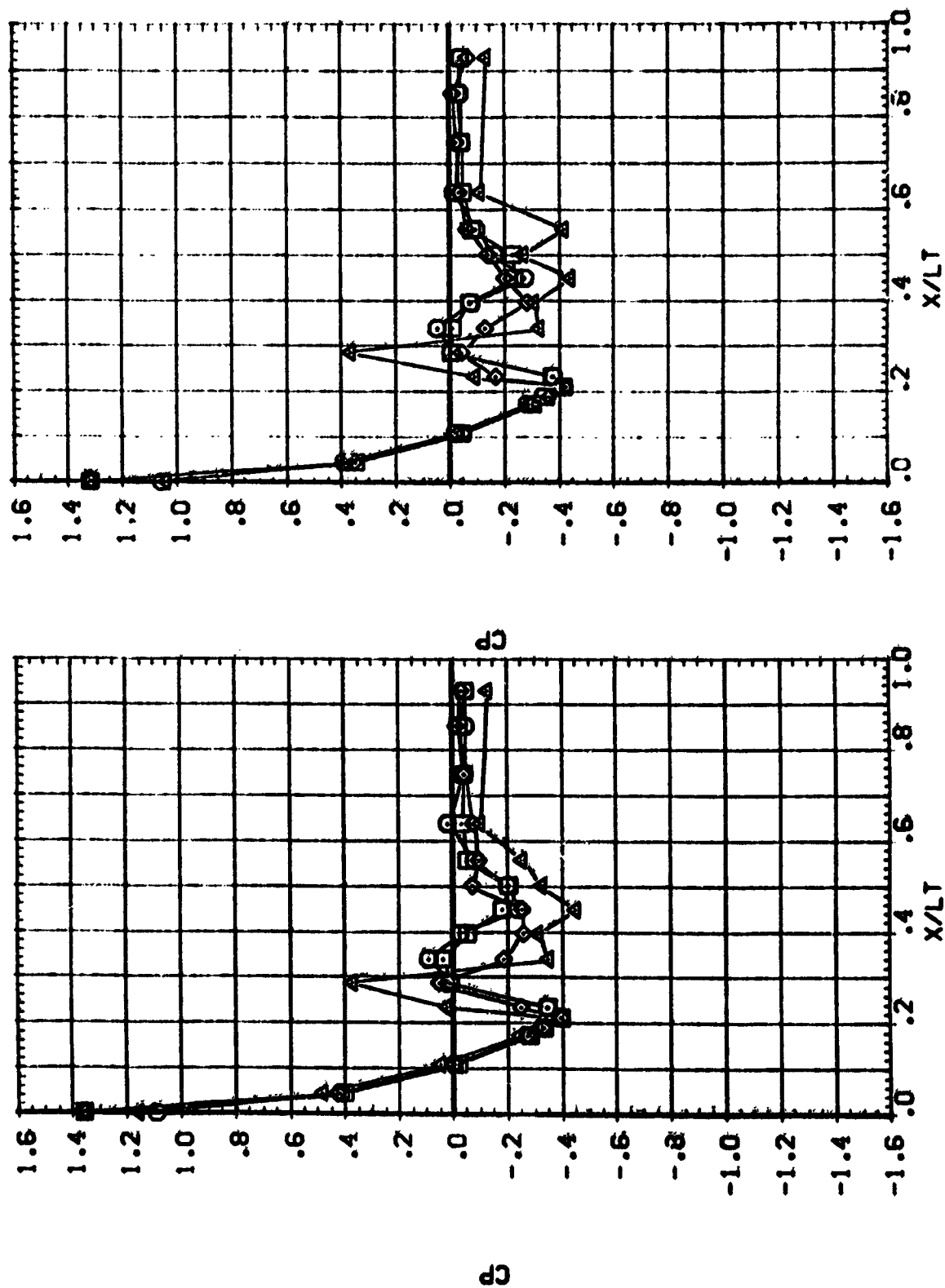
SYMBOL ☐ ☐ PHI 180.000 270.000 BETAT -4.050 2.080 MACH 1.245

PARAMETRIC VALUES
ALPHA1 8.000 ORBINC .500
RUDDER .000 ELEVON .000
RUOFLR .000



AMES 11-707 :A9 C2A + S3 + T9 EXTERNAL TANK (RBMT03)

SYMBOL	PHI	BETAT	MACH	PARAMETRIC VALUES
□	.000	4.140	1.247	ALPHAT
◇	30.000	8.250		RUDER
△	60.000			RUDFLR
	90.000			
				SRBINC
				ELEVEN
				.500
				.000
				.000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES



AMES 11-707 1A9 02A + S3 + T9 EXTERNAL TANK (RBMT03)

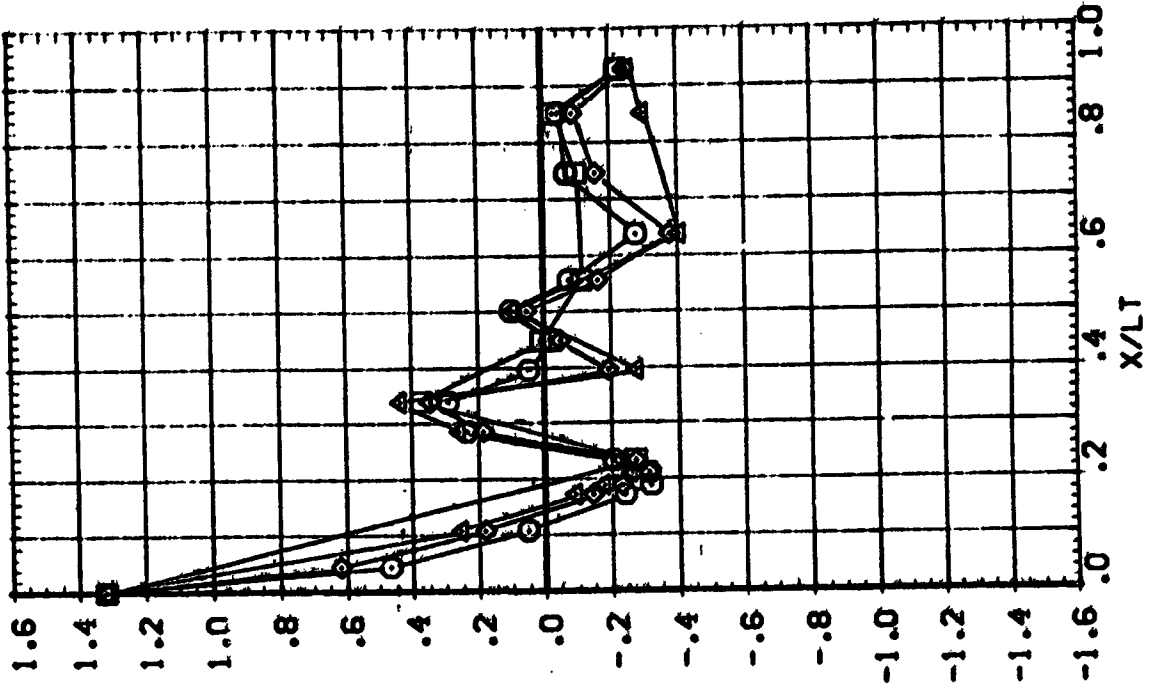
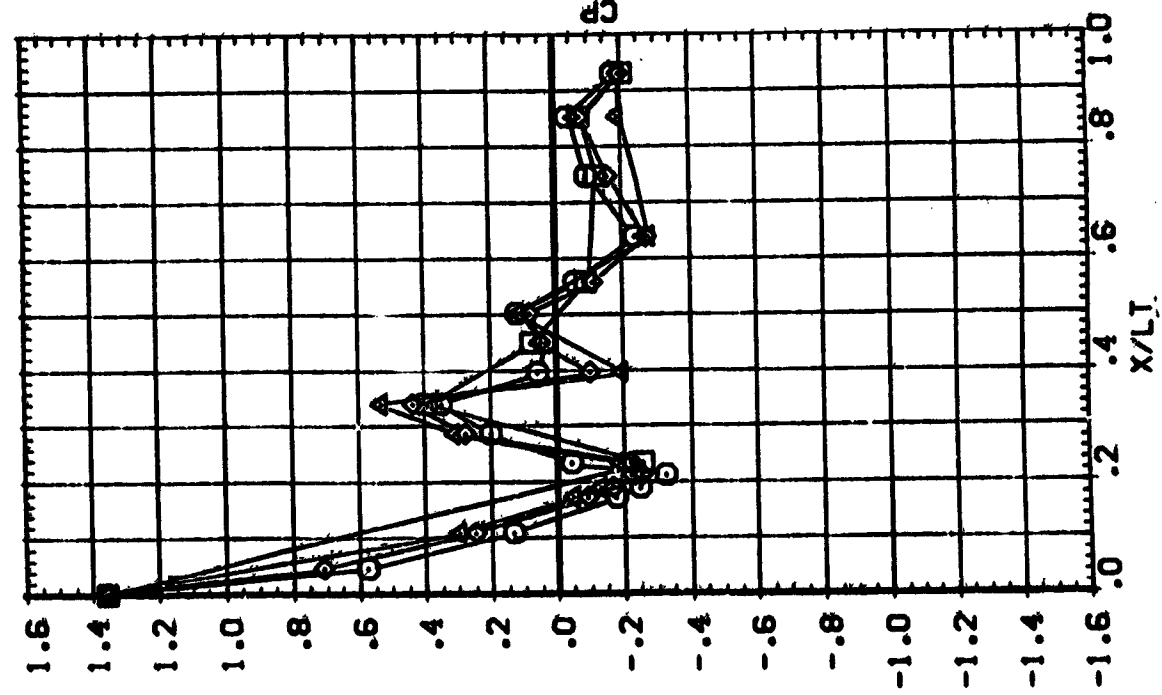
SYMBOL
□
◇
△

PHI
120.000
135.000
150.000
165.000

BETAT
4.140
8.250

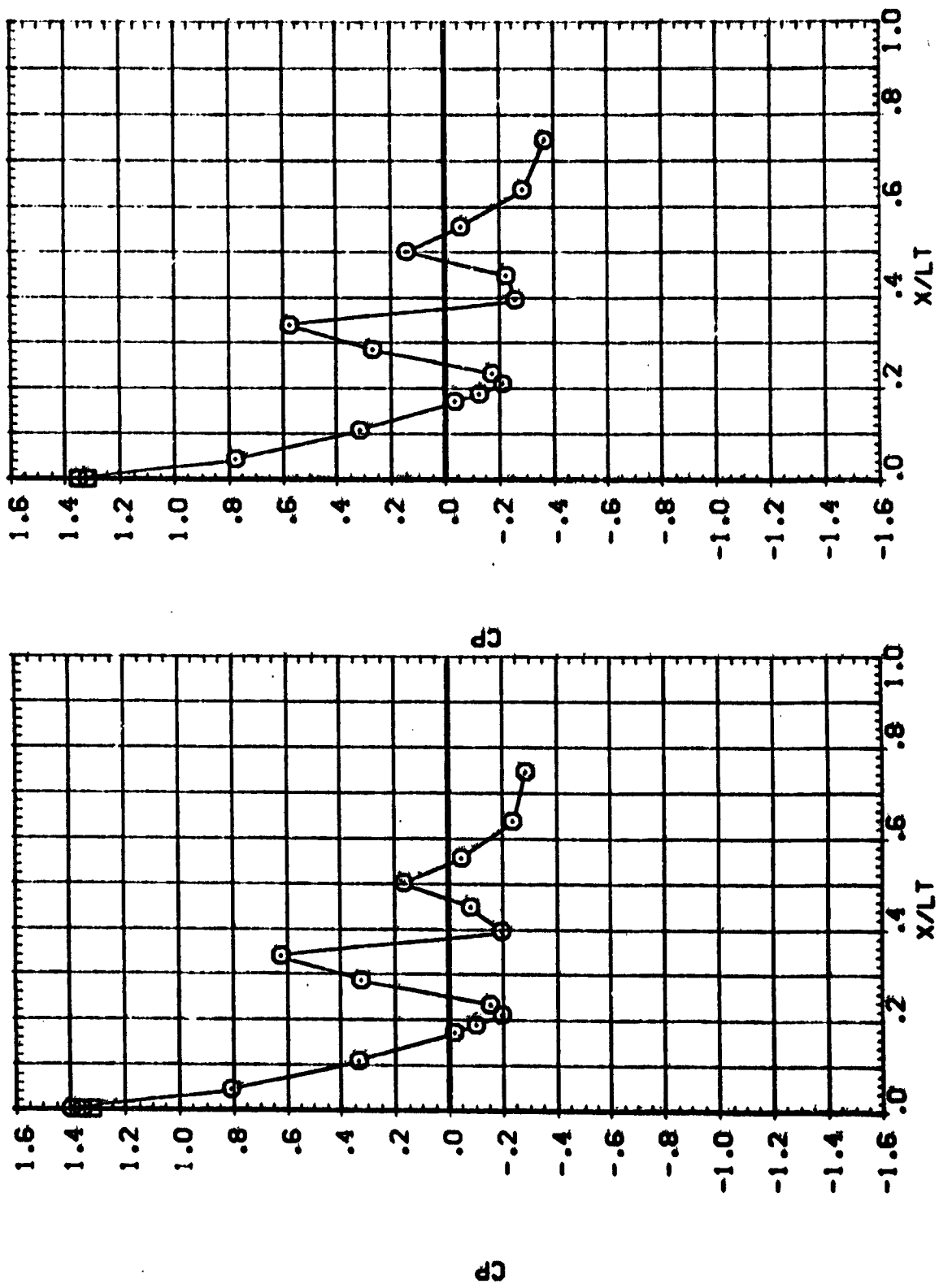
MACH
1.247

PARAMETRIC VALUES
ALPHAT
R_JDDER
R_JDFLR
-8.000
.000
.000
ORBITC
ELEVON
.500
.000



AMES 11-707 1A9 02A + S3 + T9 EXTERNAL TANK (RBMT03)

SYMBOL	PHI	BETAT	MACH	PARAMETRIC VALUES
○	180.000	4.140	1.247	-8.000° ORBINC
□	270.000	8.250		.000° ELEVON
				.000°



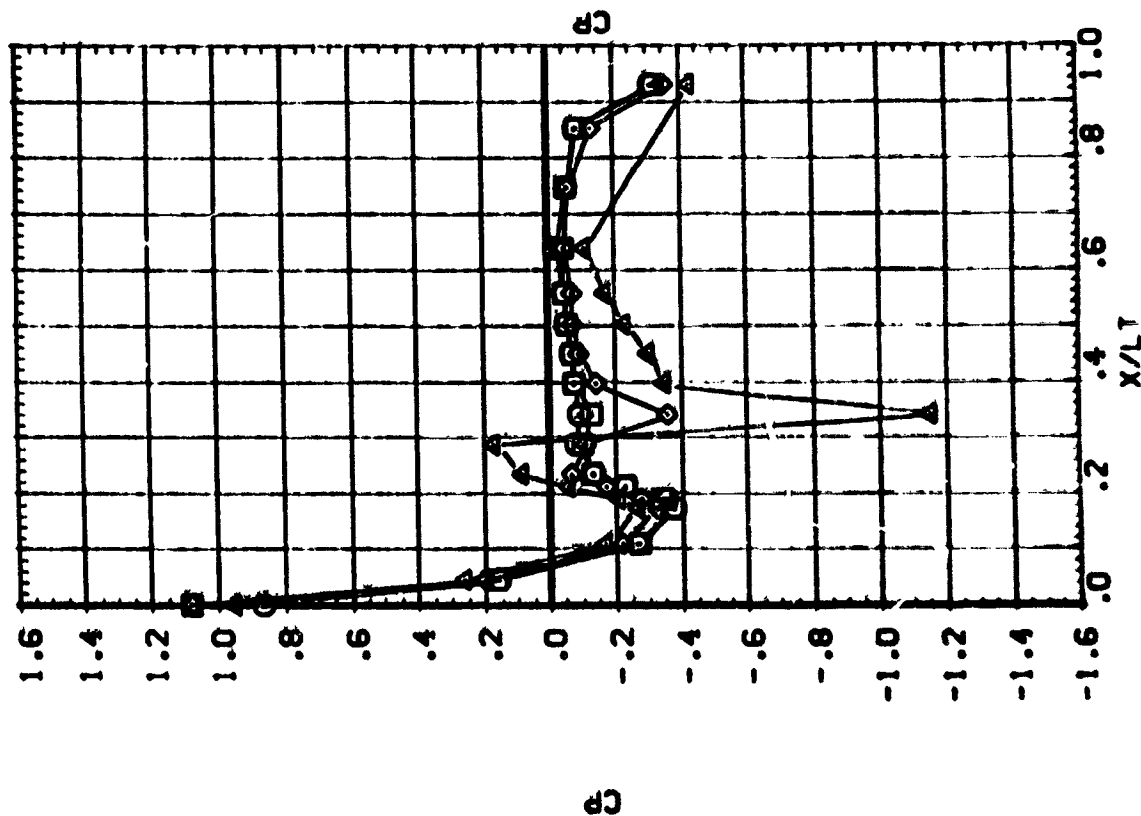
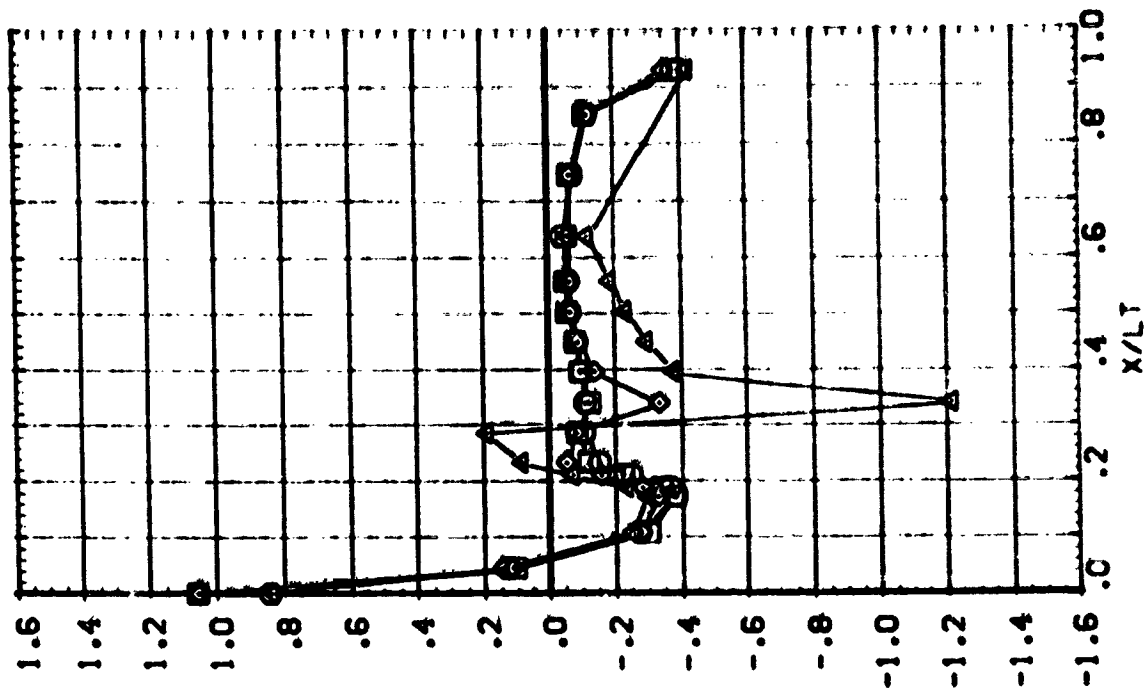
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES



AMES 11-707 1A9 C2A + S3 + T9 EXTERNAL TANK (RBMT05)

PARAMETRIC VALUES
ALPHAT -4.000 ORBINC .500
RJOER .000 ELEVCH .000
RJOFLR .000

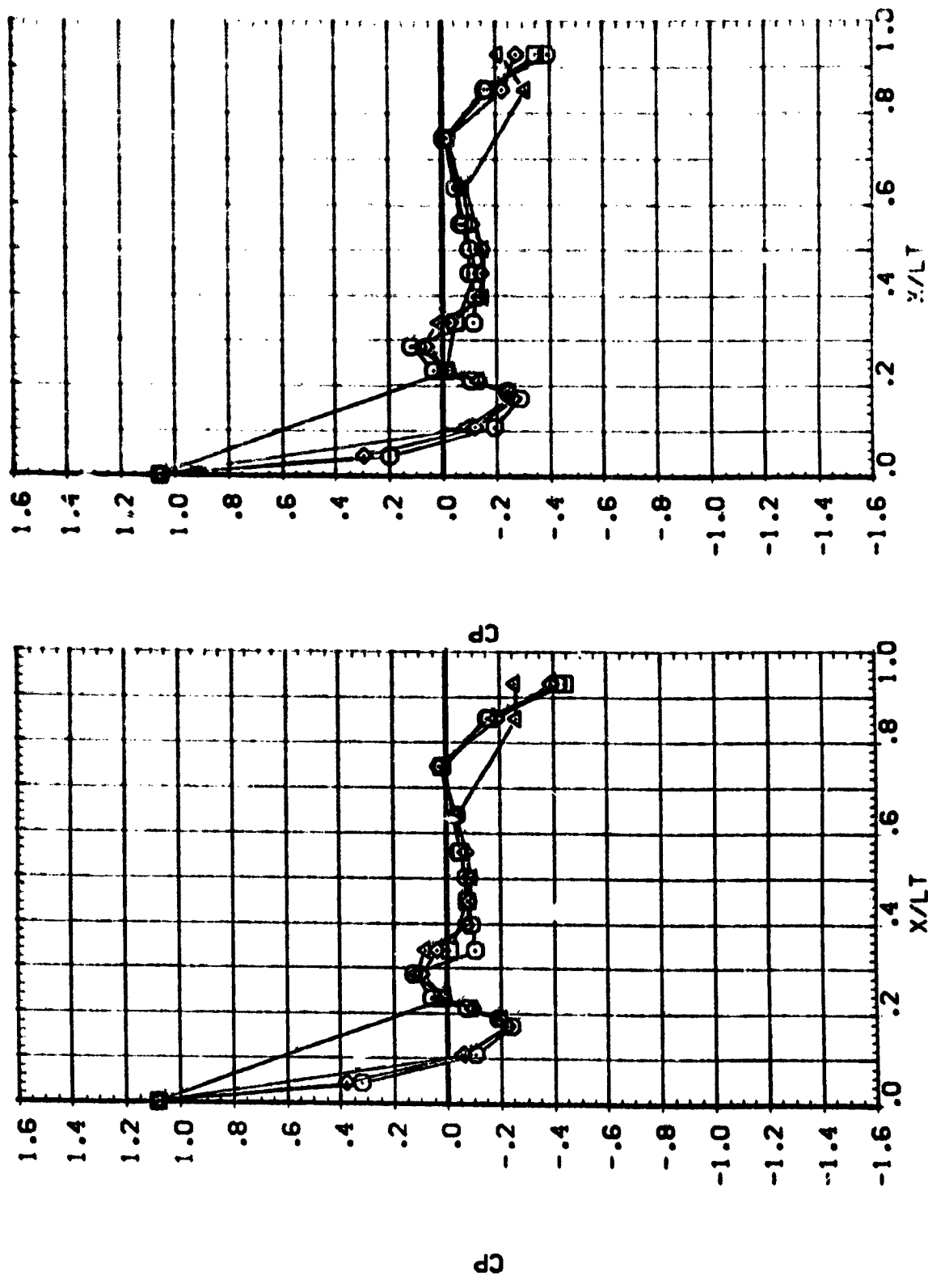
SYMBOL PNT BETAT MACH
O 0.000 .020 .600
□ 30.000 4.000
△ 60.000
▽ 90.000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 11-700 1A9 22A • S3 • 19 EXTERNAL TANK (REV 03)

SYMBOL	PA1	BEYAT	WACH	PHYSICAL VALUES
□	120.000	.000	.600	1.000
○	135.000	4.080		1.000
◇	150.000			1.000
△	165.000			1.000

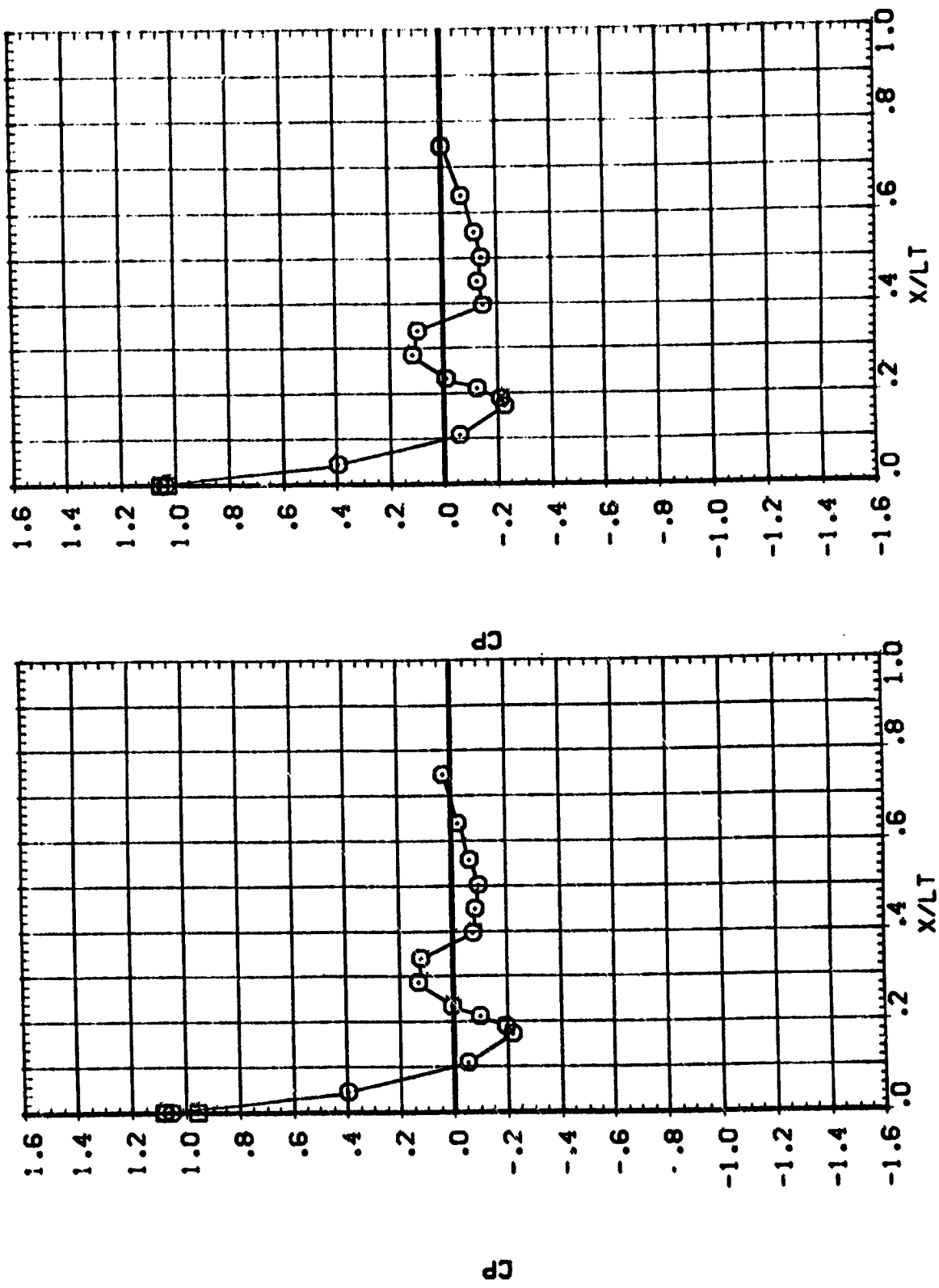


LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES



AMES 11-707 1A9 02A + S3 + T9 EXTERNAL TANK (RBMT05)

SYMBOL	PHI	BETAT	MACH	PARAMETRIC VALUES		
()	180.000	.020	.600	ALPHA-T	ORBIT	.500
[]	270.000	4.080		RUDDER	ELEVON	.000
				RUDDER		.000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES



AMES 11-707 1A9 C2A + S3 + T9 EXTERNAL TANK

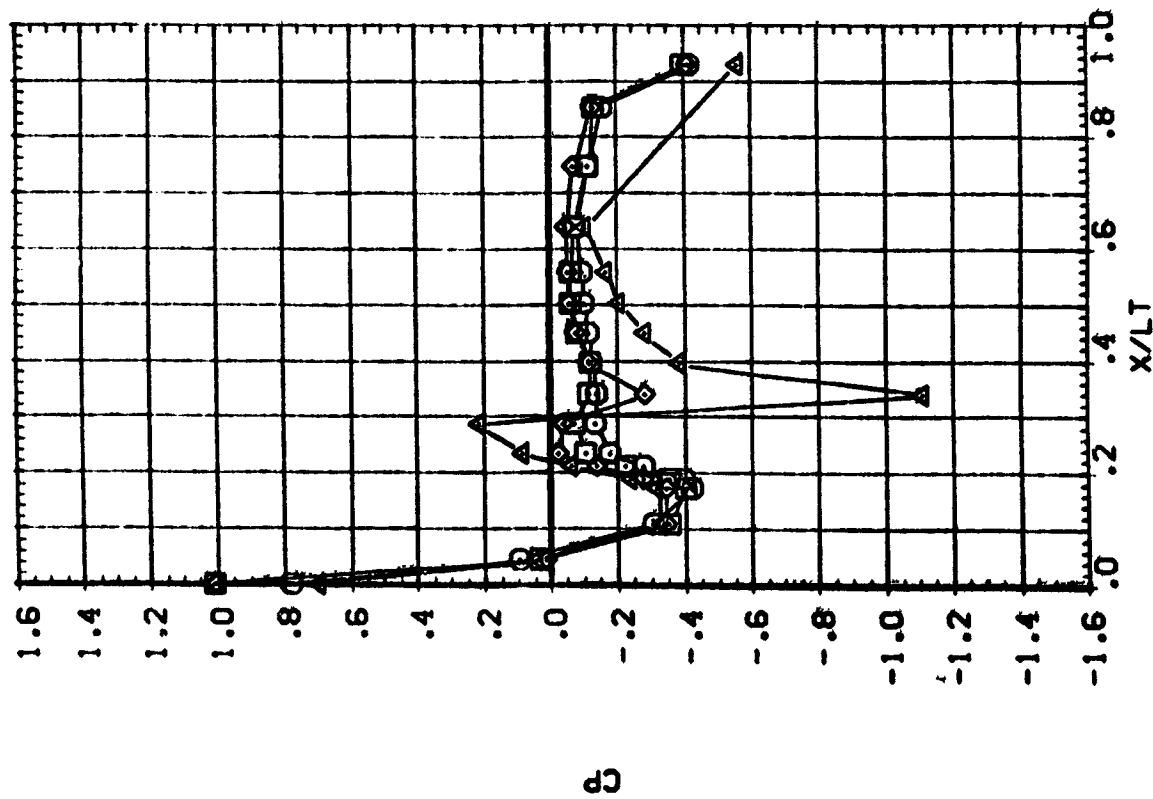
(RBMT05)

SYMBOL
○ □ ◇ △

PR* .000
30.000
60.000
90.000

BETAT 8.150
MACH .599

PARAMETRIC VALUES
ALPHAT -4.000 DRBTNC .500
RUDDER .000 ELEVON .000
RUDDLR .000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 11-707 1A9 02A + S3 + T9 EXTERNAL TANK

(RBMT05)

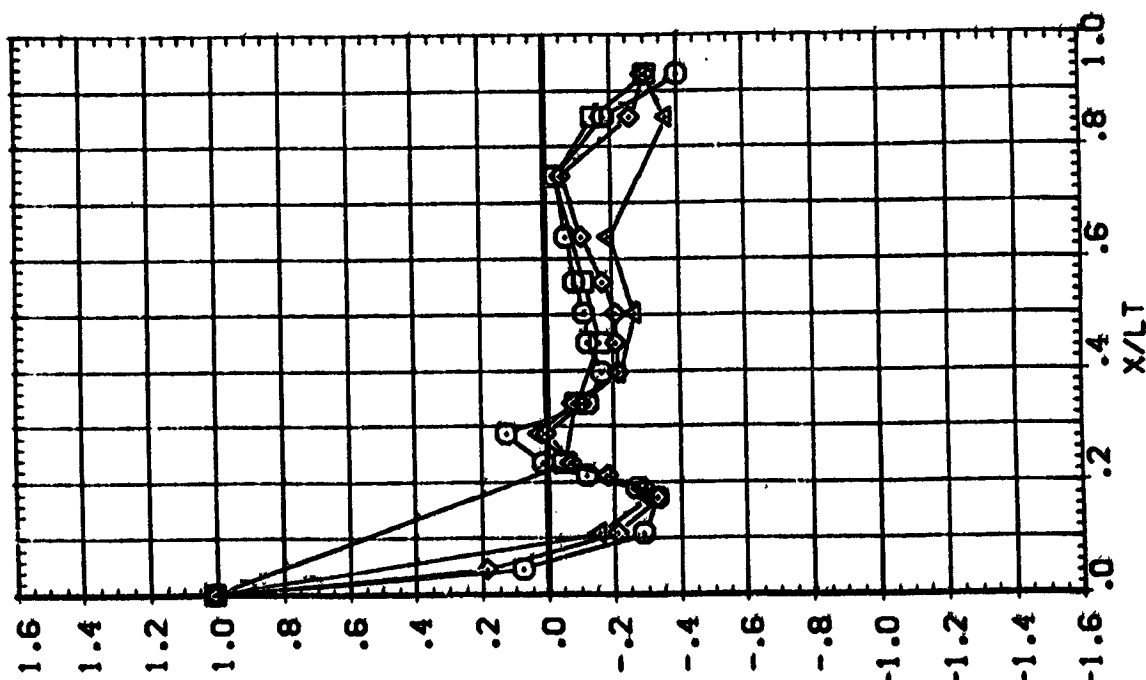
SYMBOL

PHI
120.000
135.000
150.000
165.000

BETAT
8.150

MACH
.599

PARAMETRIC VALUES
ALPHAT
RUDDER
RUOFLR
-4.000
.000
.000
ORBITC
ELEVON
.500
.000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

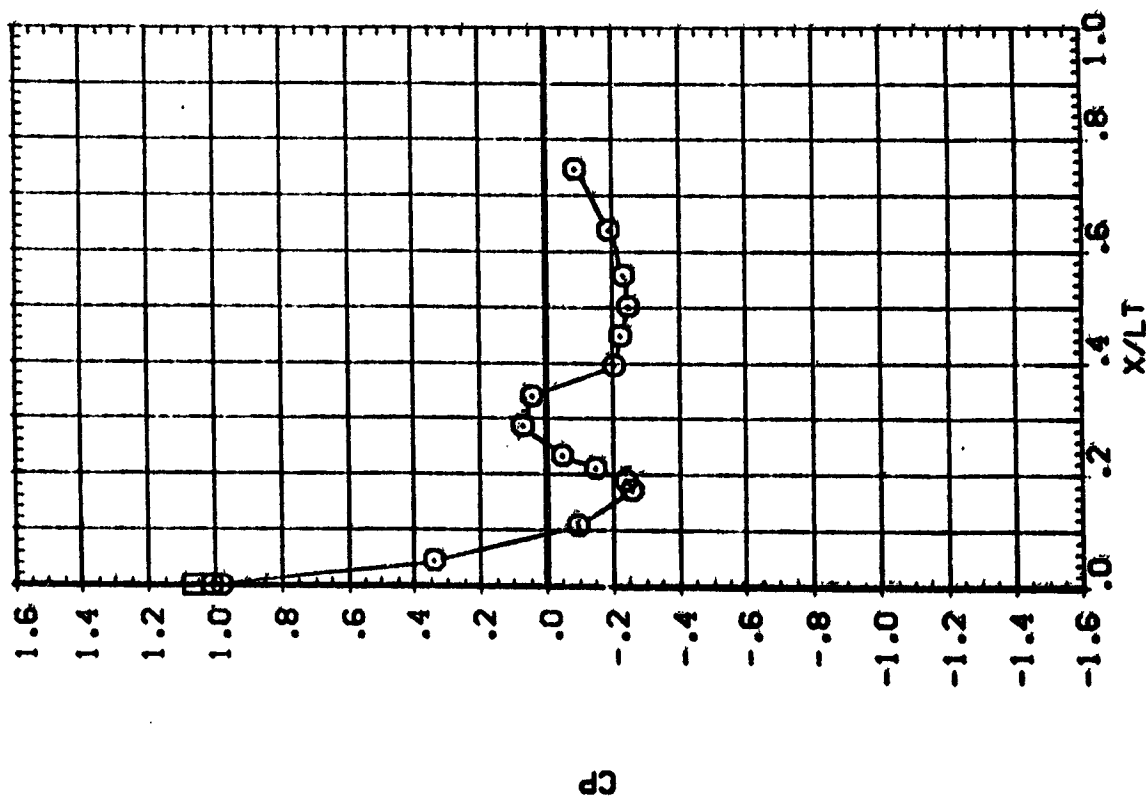
AMES 11-707 1A9 02A + S3 + T9 EXTERNAL TANK

(RBMT05)

SYMBOL
O
□

PHI 180.000
270.000
BETAT 8.150
MACH .599

PARAMETRIC VALUES
ALPHAT -4.000 ORBINC .500
RJDOER .000 ELEVON .000
RJOFIR .000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES



AMES 11-707 1A9 02A + S3 + T9 EXTERNAL TANK (RBMT05)

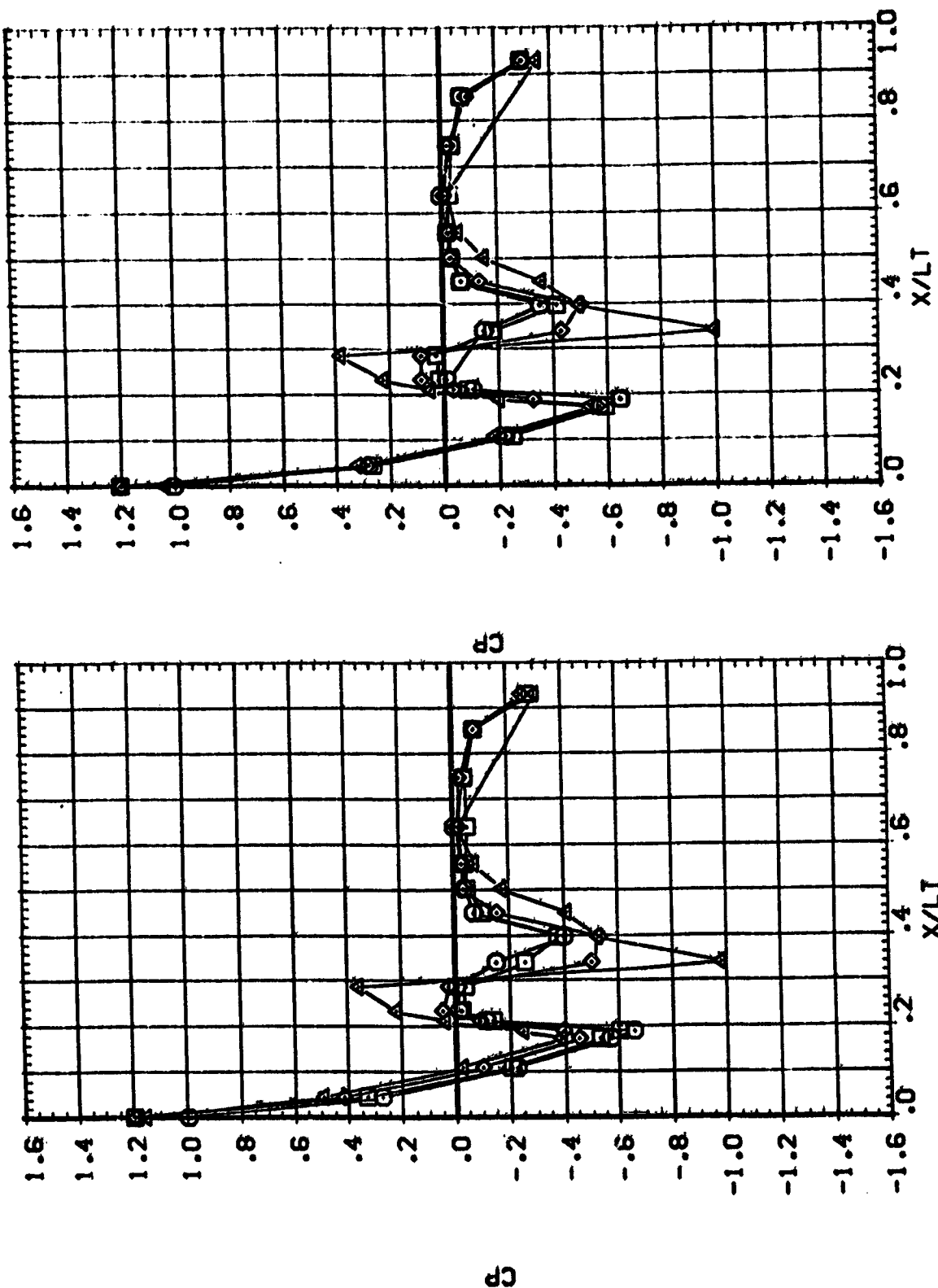
SYMBOL
□ ◇ △

PHI
30.000
60.000
90.000

BETAT MACH
-4.070 .902
2.070

PARAMETRIC VALUES
ALPHAT ORBINC
RLODR ELEVON
RLOFLR

.500
.000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 11-707 1A9 02A + S3 + T9 EXTERNAL TANK (RBMT05)

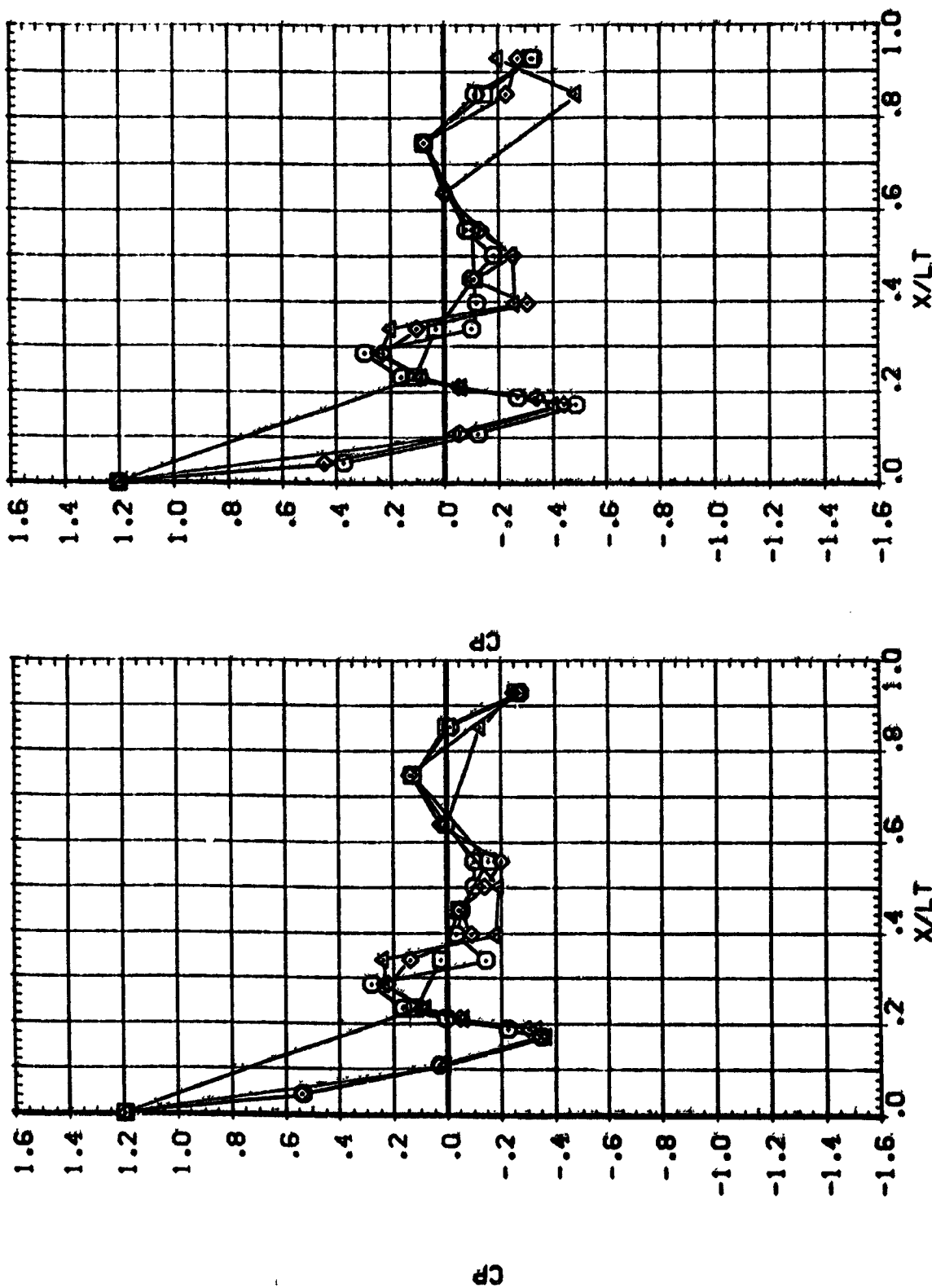
SYMBOL
 ○ □ ◇ △

PMI 120.000
 135.000
 150.000
 165.000

BETAT -4.070
 2.070

MACH .902

PARAMETRIC VALUES
 ALPHAT -4.000
 R-ODER .000
 R-OFLE .000
 ORBINC .500
 ELEVON .000



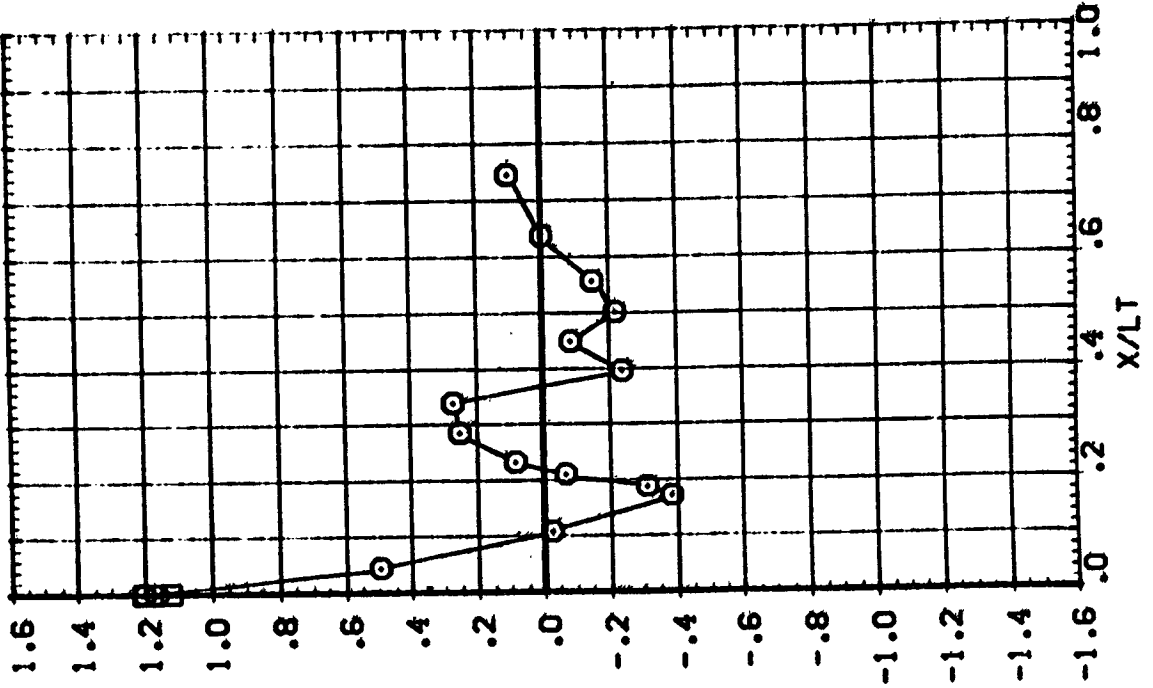
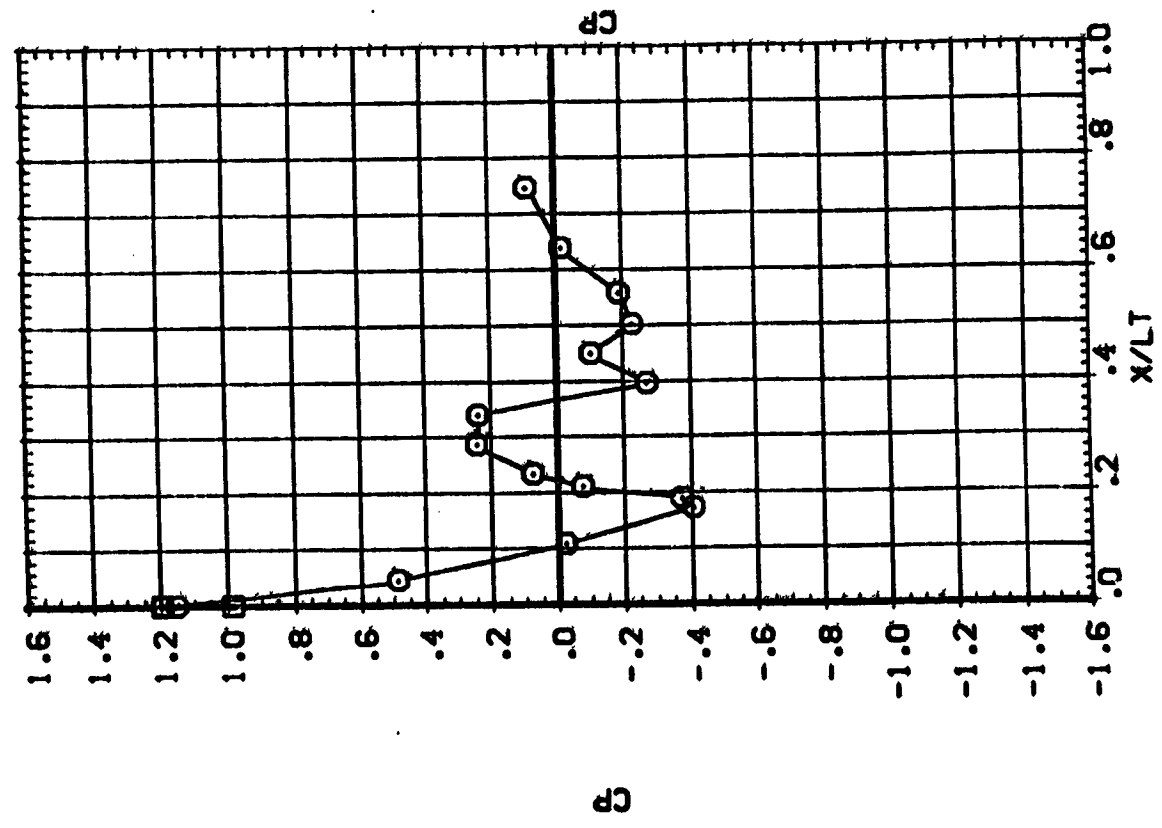
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES



AMES 11-707 1A9 02A + S3 + T9 EXTERNAL TANK (RBMT05)

SYMBOL PH1 BETAT MACH
180.000 -4.070 .902
270.000 2.070

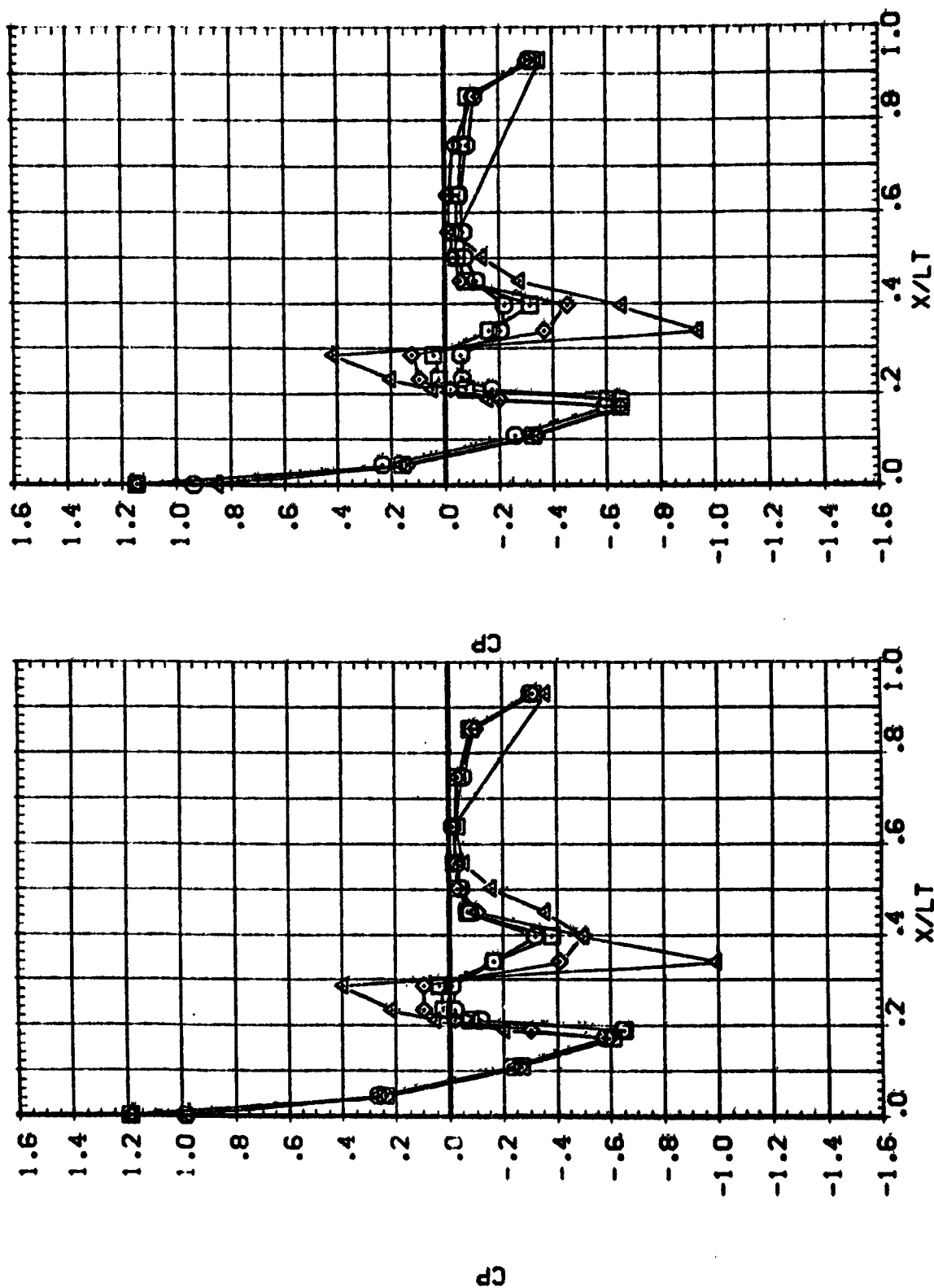
PARAMETRIC VALUES
ALPHAAT -4.000 ORBINC .500
RUDDER .000 ELEVON .000
RUDFLR .000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 11-707 1A9 02A + S3 + T9 EXTERNAL TANK (RBMT05)

SYMBOL	PHI	BETAT	MACH	PARAMETRIC VALUES	
				ALPHAT	ORGINC
□	.000	4.120	.900	RUDER	.500
◇	30.000	8.230		RDFLR	.000
△	60.000				
	90.000				



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES



AMES 11-707 :A9 02A + S3 + T9 EXTERNAL TANK (RBMT05)

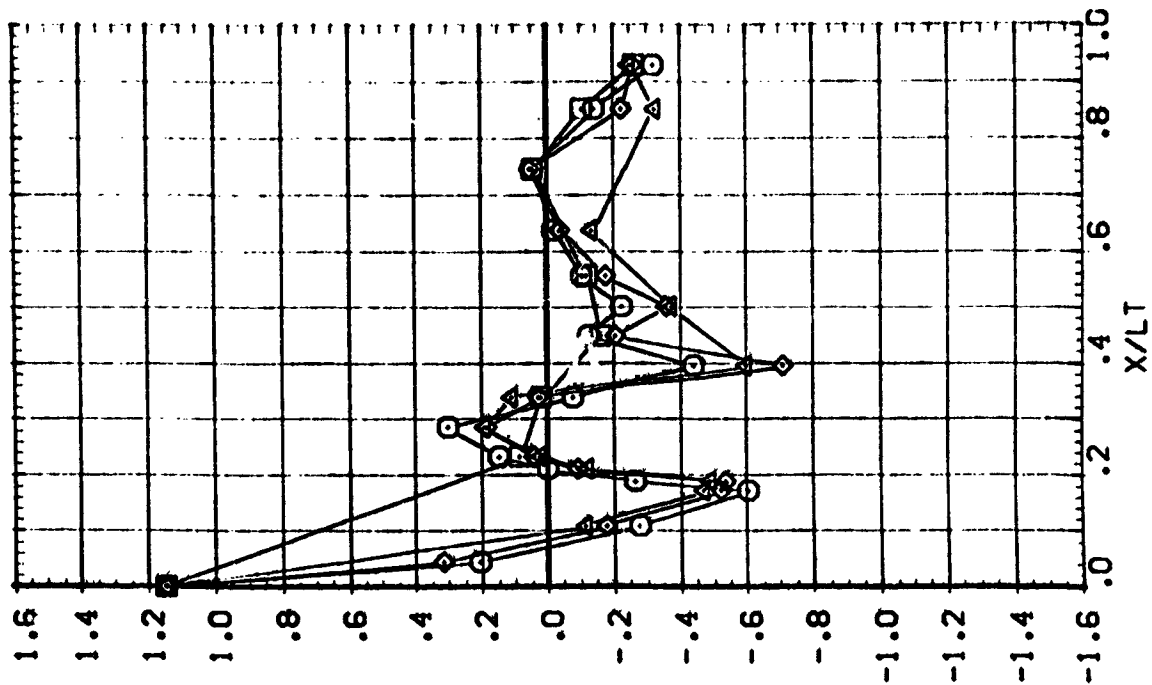
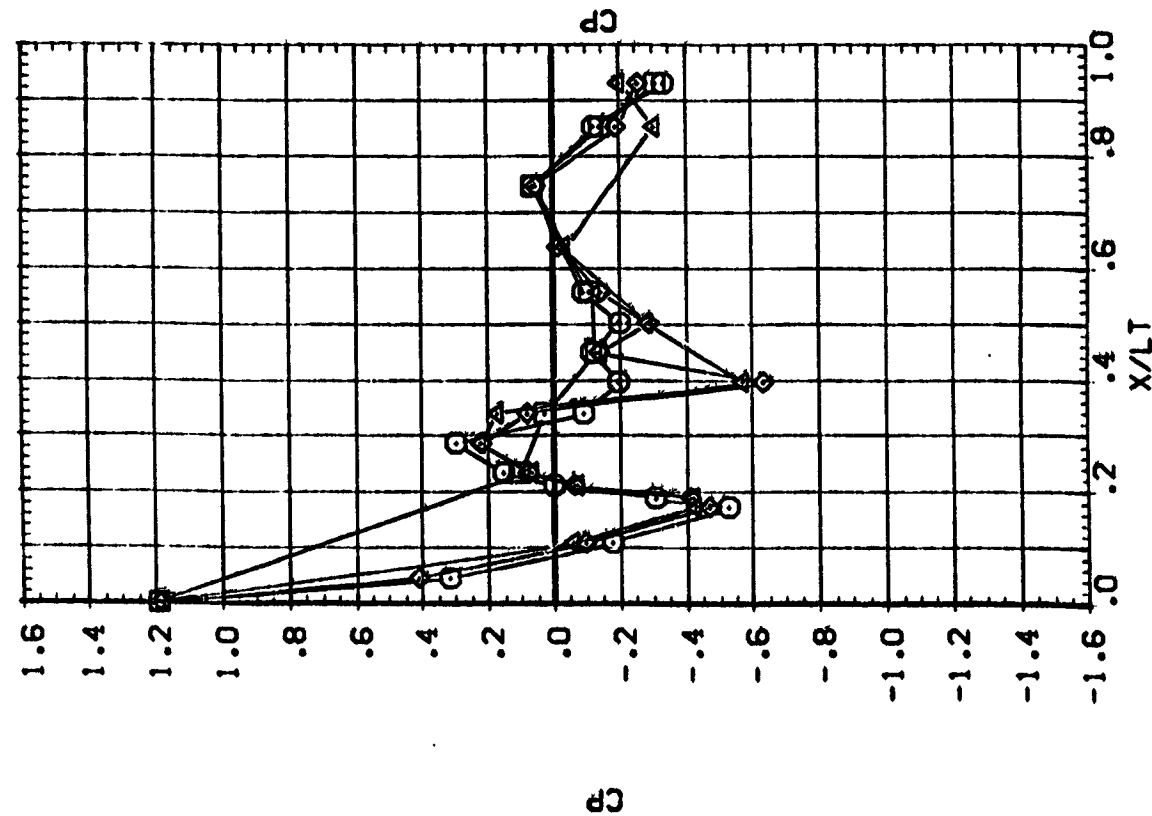
SYMBOL
 □
 ◇
 △

PHI
 120.000
 135.000
 150.000
 165.000

BETAT
 4.120
 8.230

MACH
 .900

PARAMETRIC VALUES
 ALPHA
 RUDDER
 RUDFLR
 -4.000
 .000
 .000
 CRBINC
 ELEVON
 .500
 .000

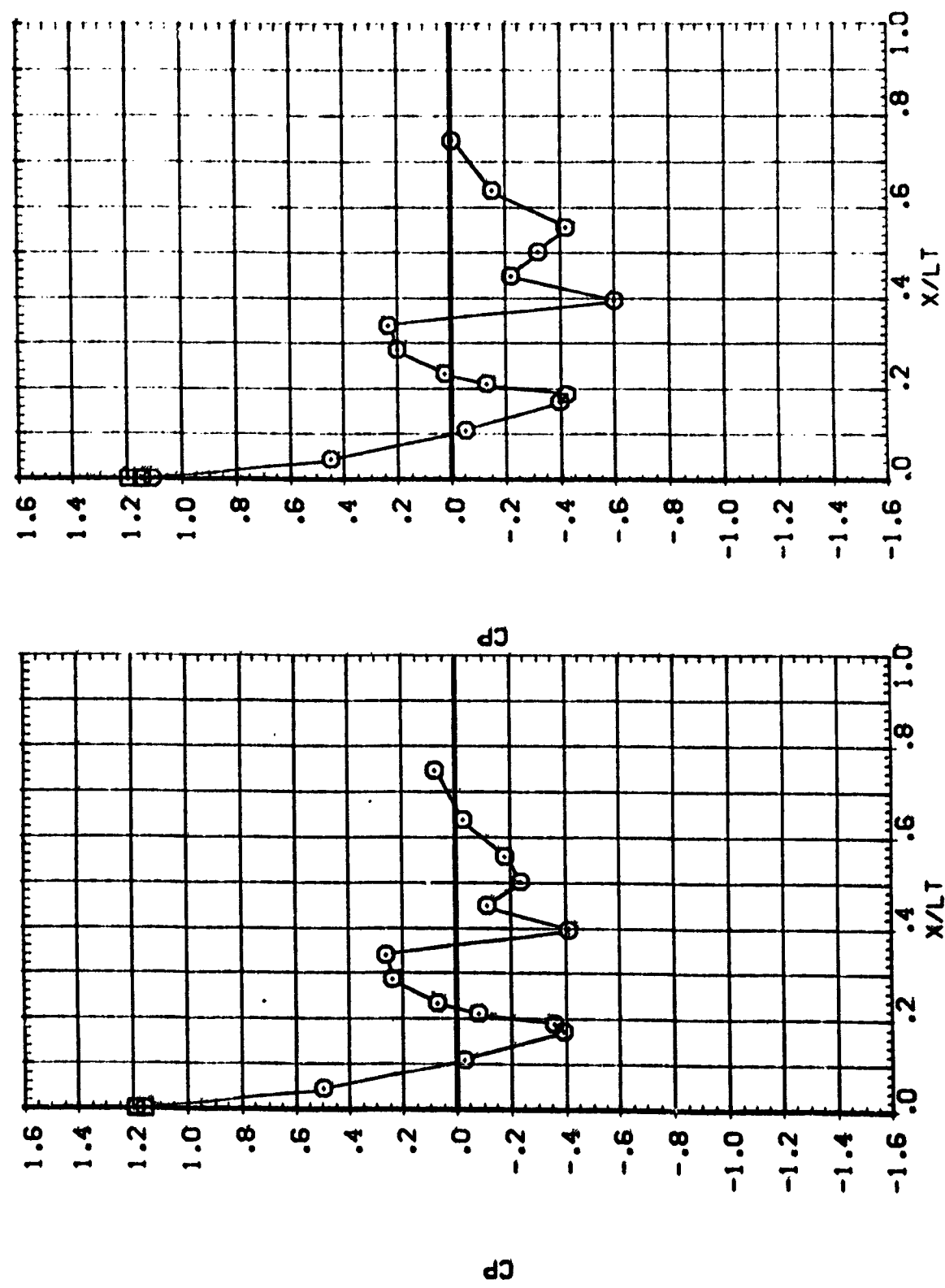


LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 11-707 1A9 02A + S3 + T9 EXTERNAL TANK (RBMT05)

SYMBOL PAK BETA1 BACH .900
 180.000 4.120
 270.000 8.730

PARAMETRIC VALUES
 ALPHAT -4.000 CROBINC .500
 RUDDER .000 ELEVON .000
 RUDDLR .000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES



AMES 11-707 1A9 02A + S3 + T9 EXTERNAL TANK (RBMT05)

SYMBOL
O
□
◇
△

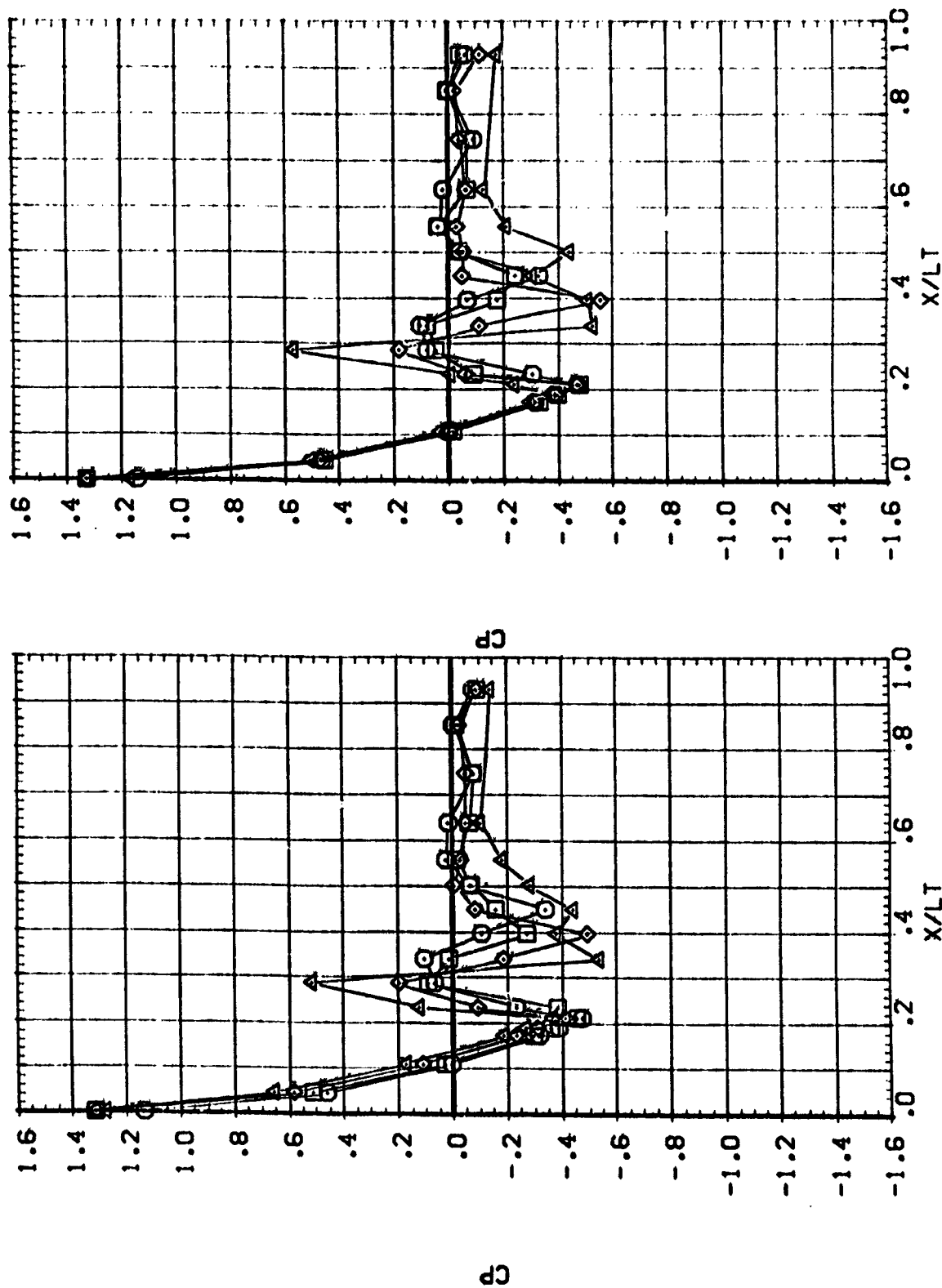
PMI
.000
30.000
60.000
90.000

BETAT
-4.080
2.080

MACH
1.101

PARAMETRIC VALUES
ALPHA-T
RUDER
RUFLR

ORBITC
ELEVON
.000
.000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

(RBMT05)

PAI
120.000
135.000
150.000
165.000

BETAT MACH
-4.080 1.10:
2.080

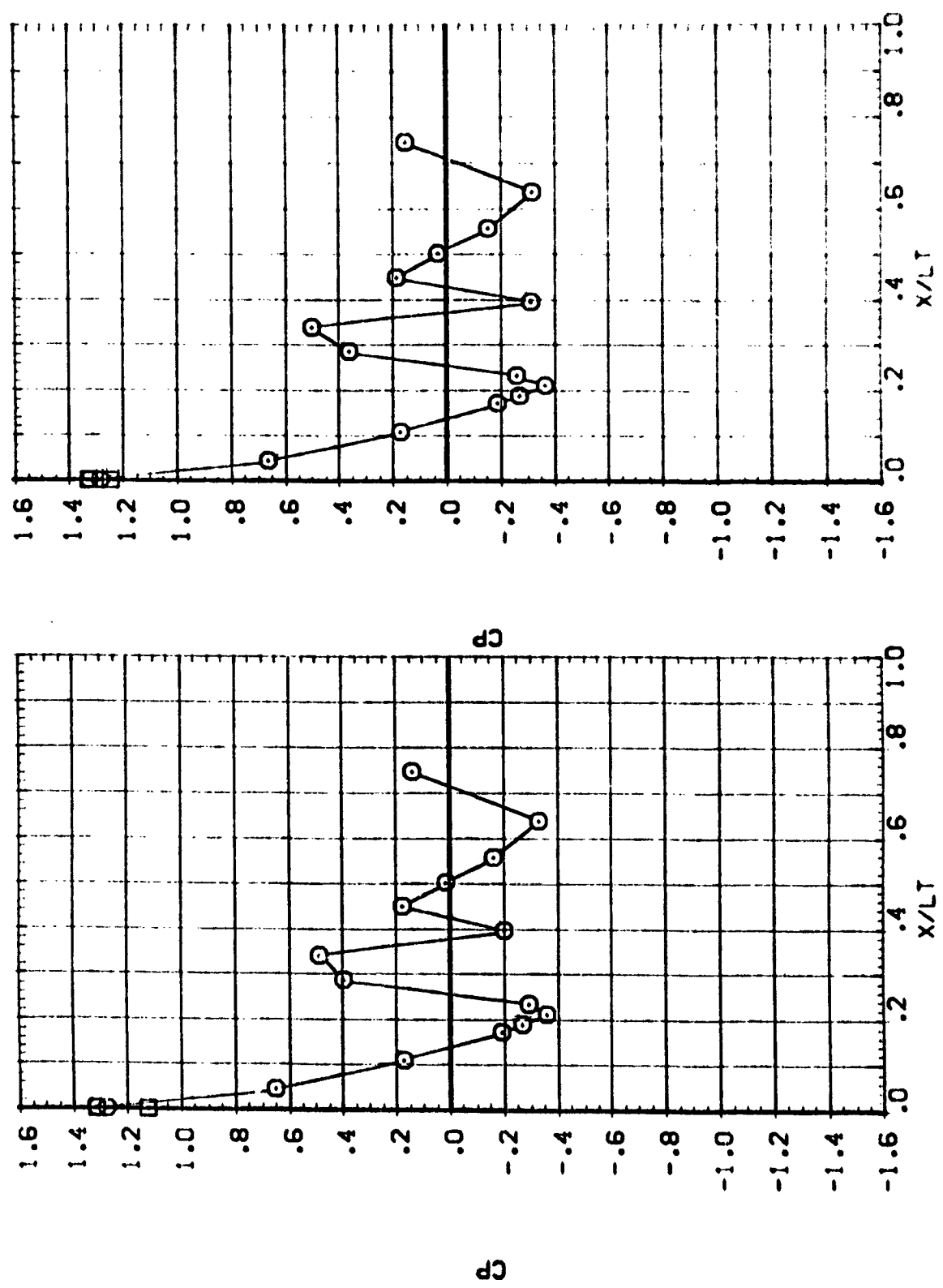
PARAMETRIC VALUES	
ALPHAT	-4.000
BUDGER	.000
ROSTER	.000
	.500
	.000





AMES 11-707 1A9 02A + S3 + T9 EXTERNAL TANK (RBM05)

SYBC- 180.000 270.000
PHI: 180.000 270.000
BETAT -4.080 2.080
MACH 1.10
PARAMETRIC VALUES
ALPHA* -4.000 0.000
RUDDER .000 .000
RUDDER ELEVON .000 .000

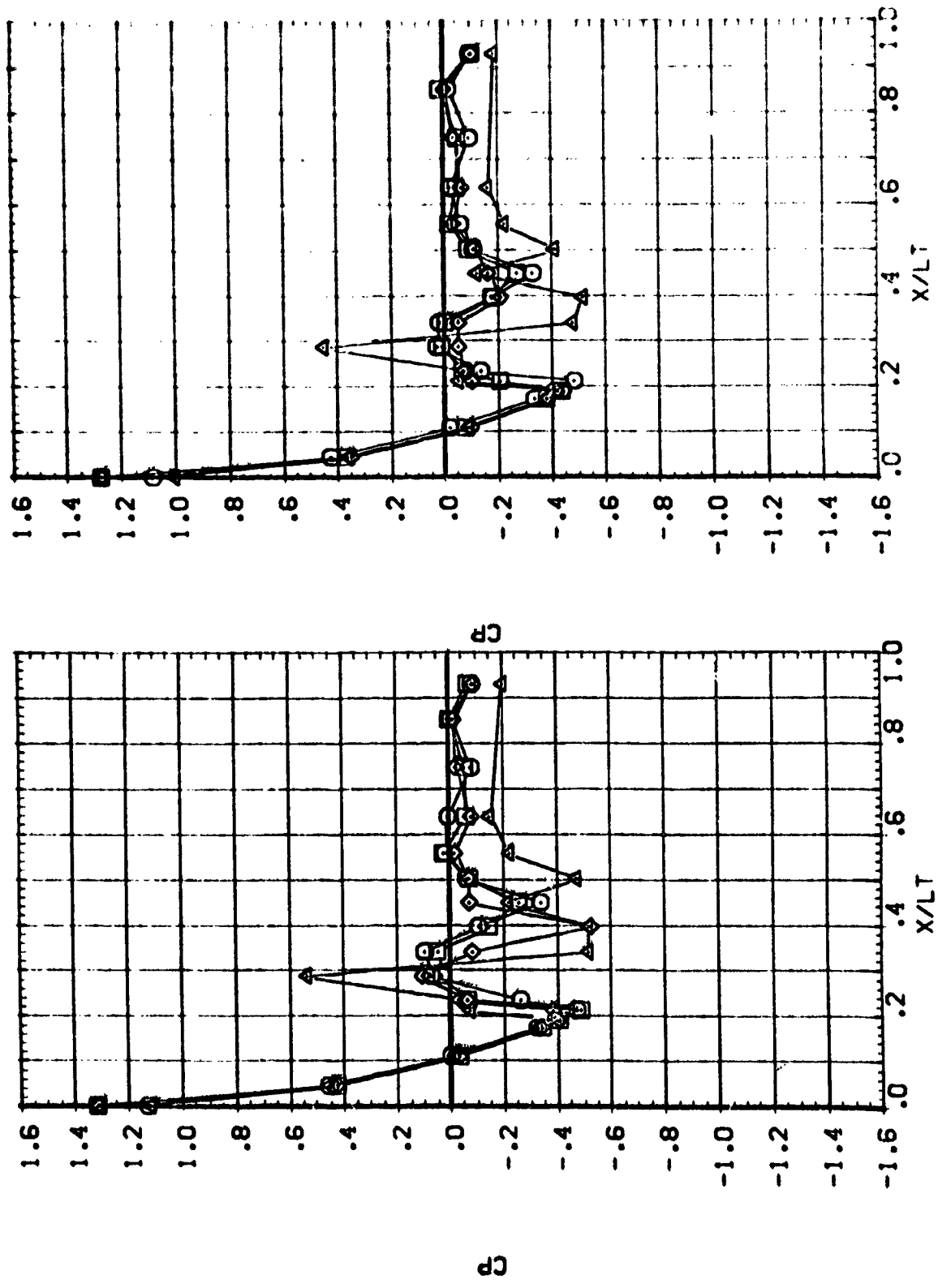


LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES



AMES 11-707 1A9 02A + S3 + T9 EXTERNAL TANK (RBM35)

SYMBOL	PHI	BETAT	MACH	PARAMETRIC VALUES
○	.000	4.140	1.102	ALPHA°
◇	30.000	8.270		ROTOR
△	60.000			RUFLR
	90.000			
				SPRING
				ELECT
				.500
				.000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AVES 11-707 1A9 02A + S3 + 19 EXTERNAL TANK (RBMT05)

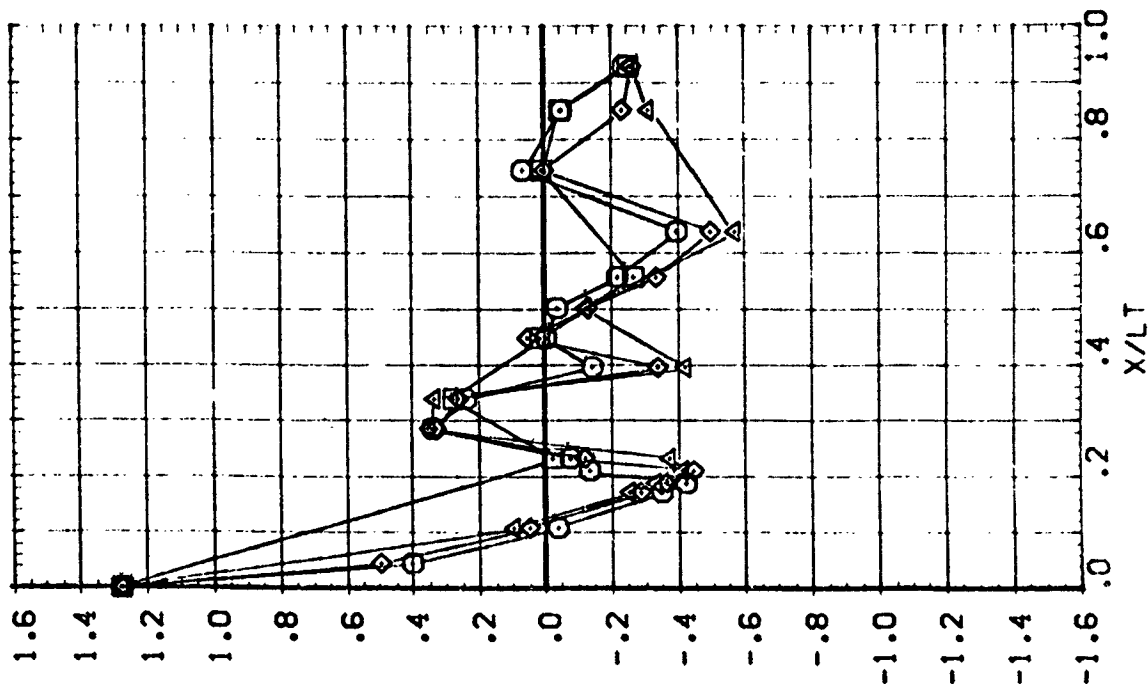
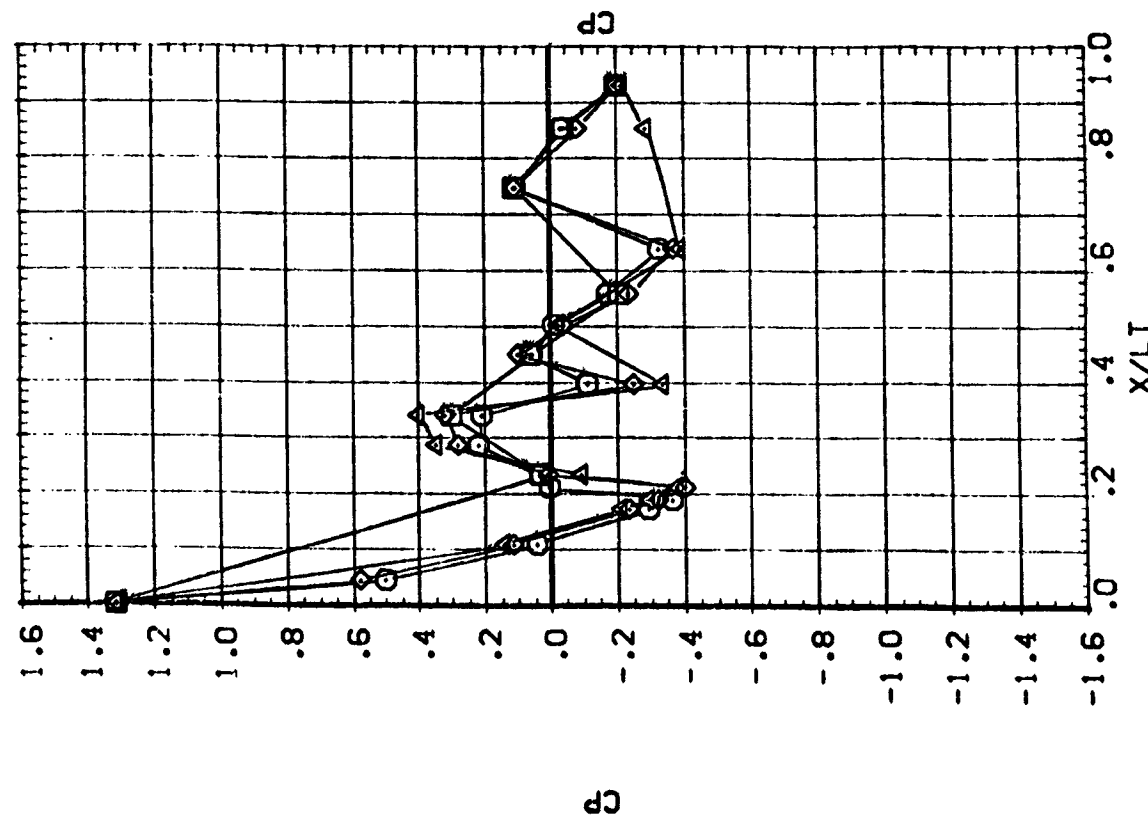
SYMBOL
 O
 □
 ◇
 △

PHI
 120.000
 135.000
 150.000
 165.000

BETAT
 4.140
 8.270

MACH
 1.102

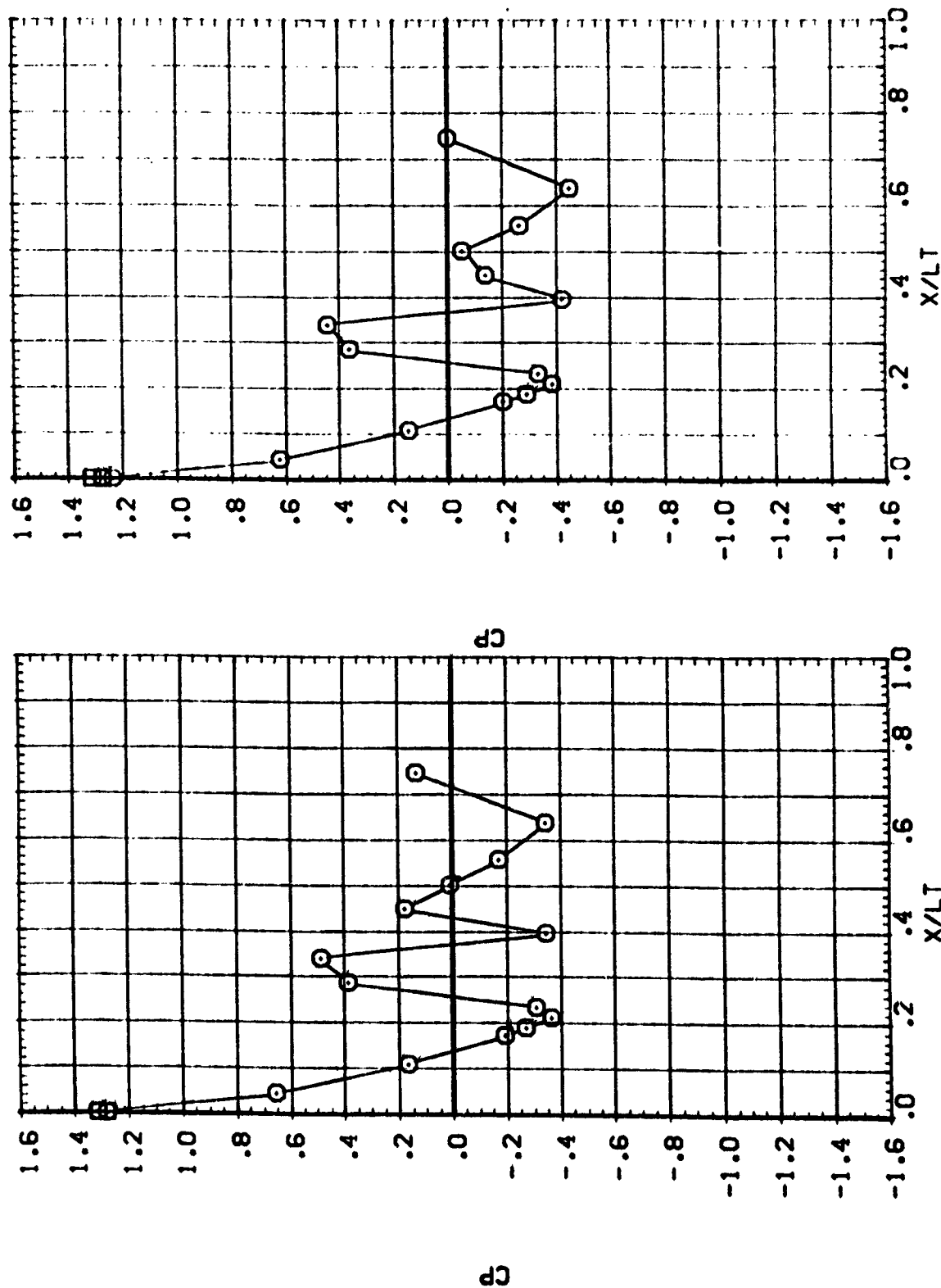
PARAMETRIC VALUES
 ALPHAT -4.000
 RUDDER .000
 RUDDLR .000
 ORBITAL .500
 ELEVON .000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 11-707 1A9 02A + S3 + T9 EXTERNAL TANK (RBMT05)

SYNQC	PHI	BETAT	MACH	PARAMETRIC VALUES
180.000	4.140	1.102	ALPHAT	-4.000
270.000	8.270		R_DDER	.000
			R_DFLR	.000
				DRBINC
				ELEVEN
				.500
				.000

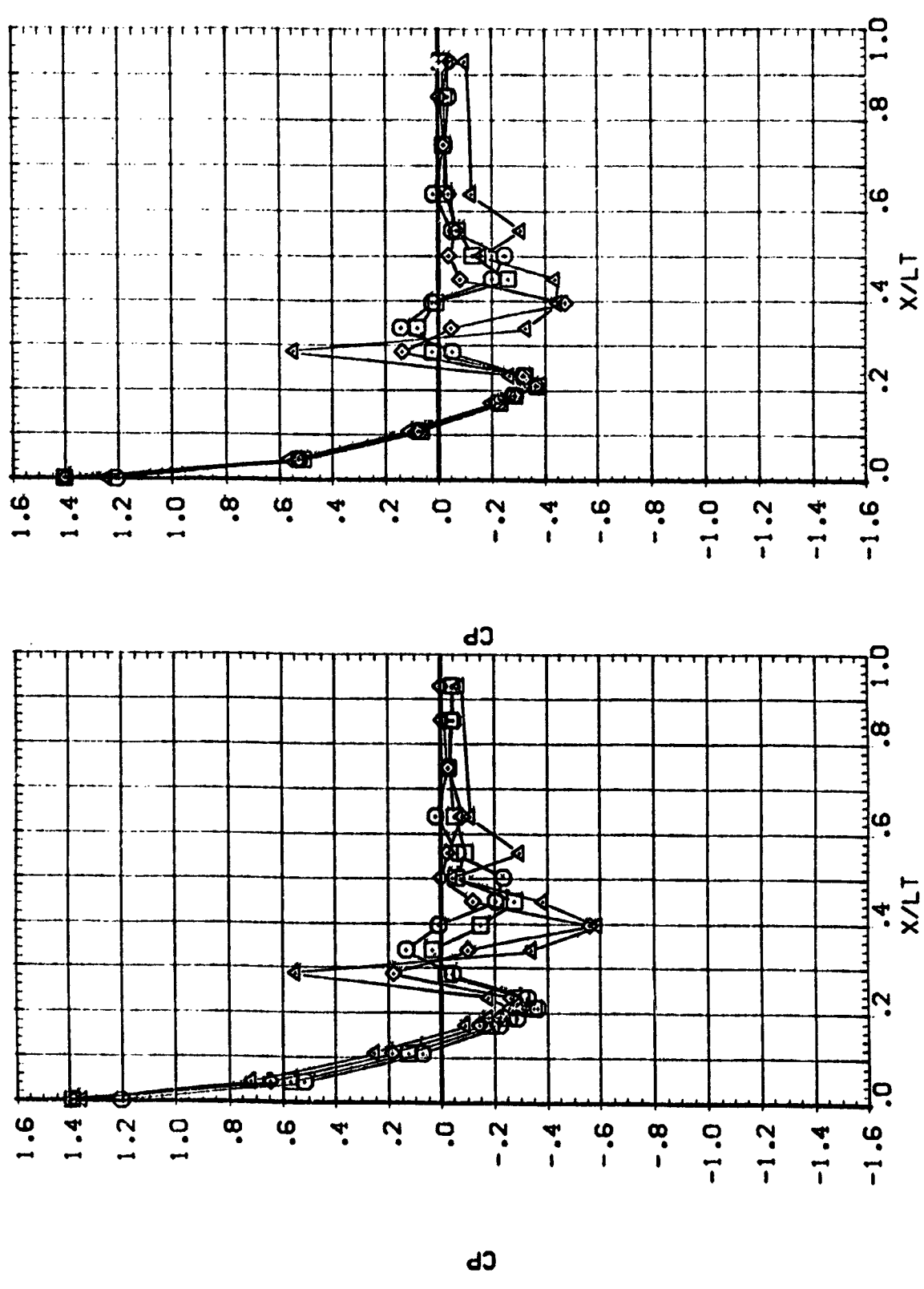


LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES



AMES 11-707 1A9 C2A + S3 + T9 EXTERNAL TANK (RBMT05)

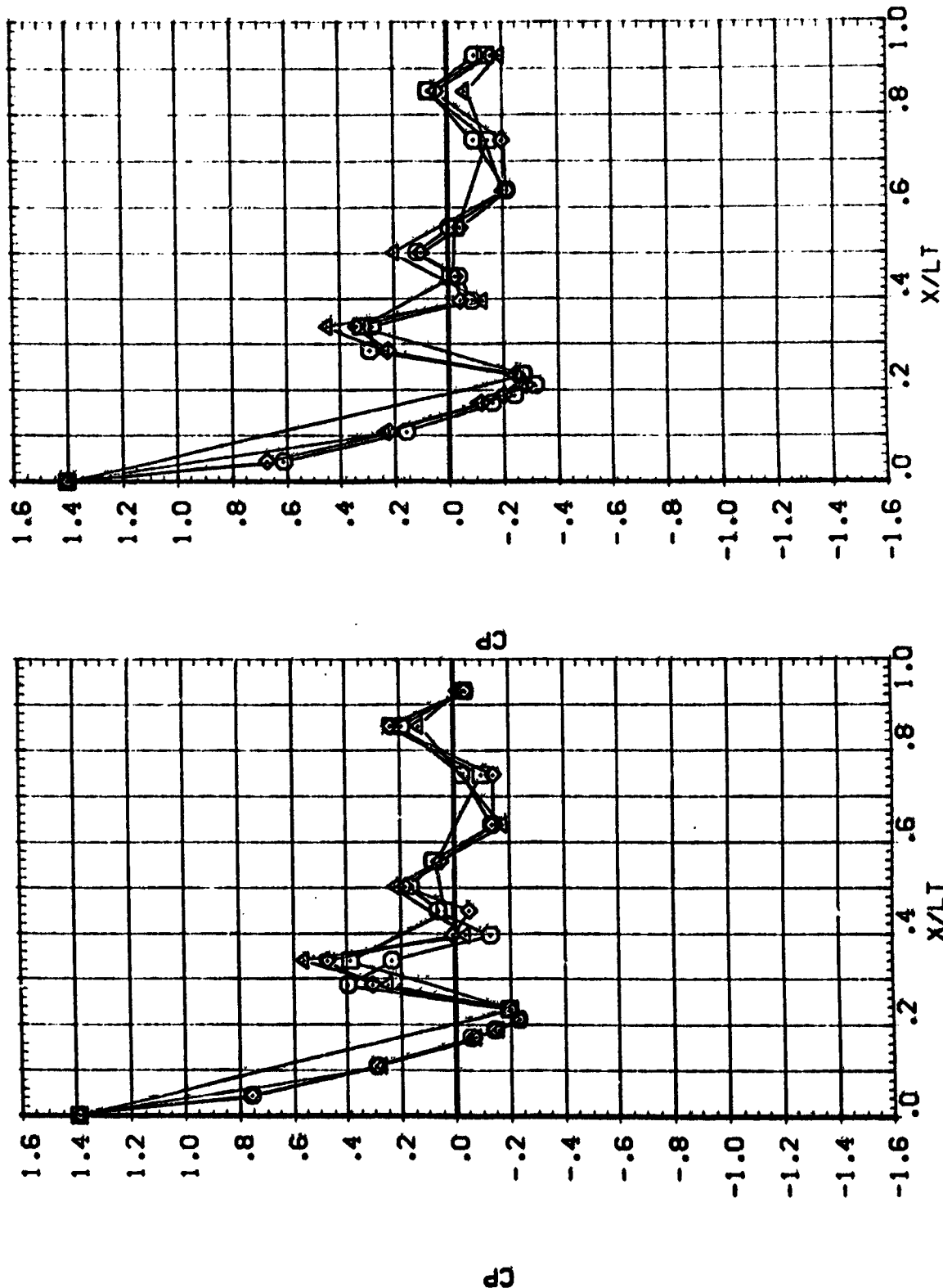
SYMBOL	PHI	BETAT	MACH	ALPHAT	PARAMETRIC VALUES
○	.000	-4.060	1.245	RJODER	-4.000 ORBINC
□	30.000	2.060		RJOFLE	.000 ELEVON
◇	60.000				.000
△	90.000				



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 11-707 1A9 02A + S3 + T9 EXTERNAL TANK (RBMT05)

SYMBOL	PHI	BETAT	MACH	PARAMETRIC VALUES
□	120.000	-4.050	1.245	ALPHAT -4.000 CRBINC .500
◇	135.000	2.050		RJODER .000 ELEVON .000
△	150.000			
▽	165.000			



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES



AMES 11-707 1A9 02A + S3 + T9 EXTERNAL TANK (RBN 05)

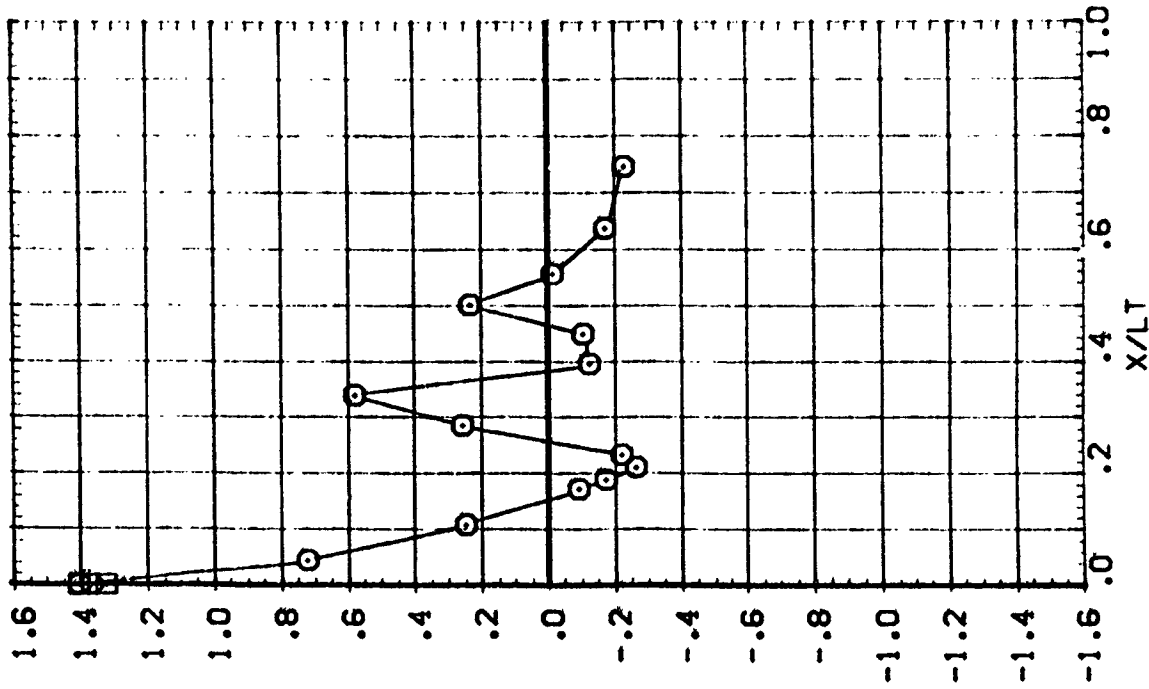
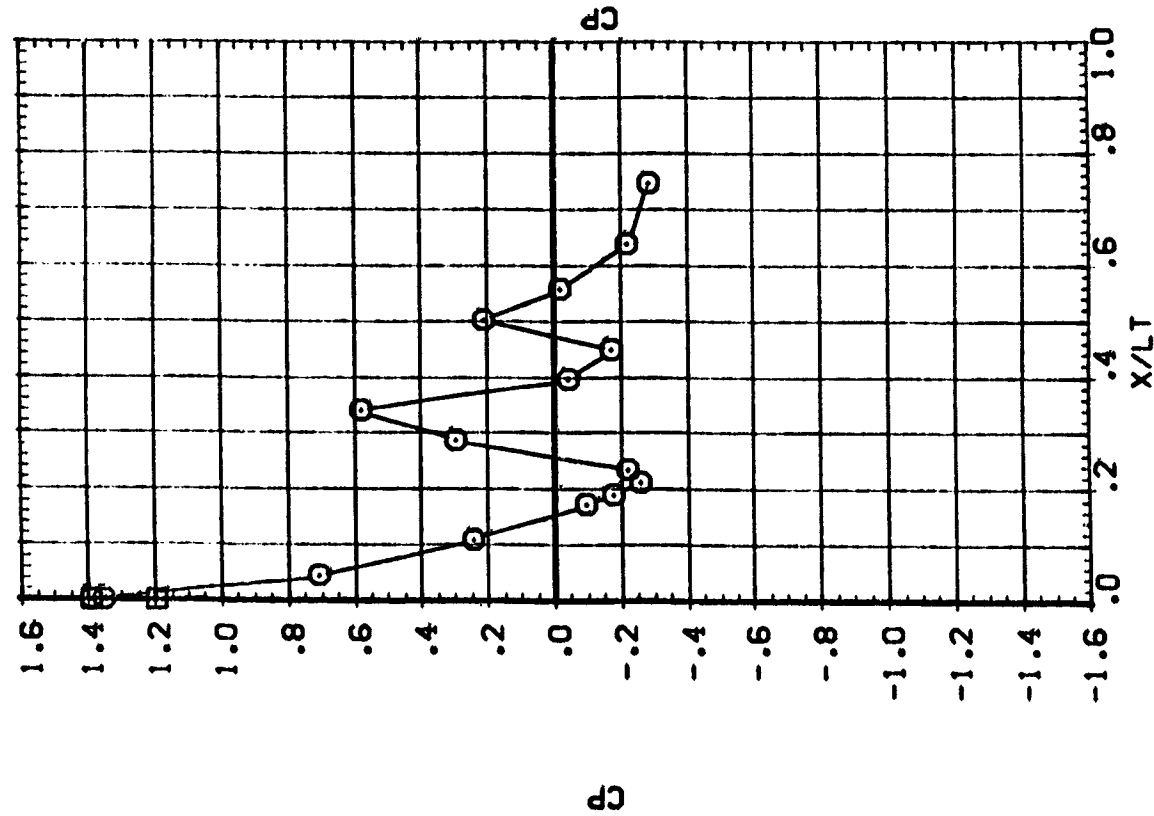
SYMBOL
O I

PHI 180.000
270.000

BETAT -4.060
2.060

MACH 1.245

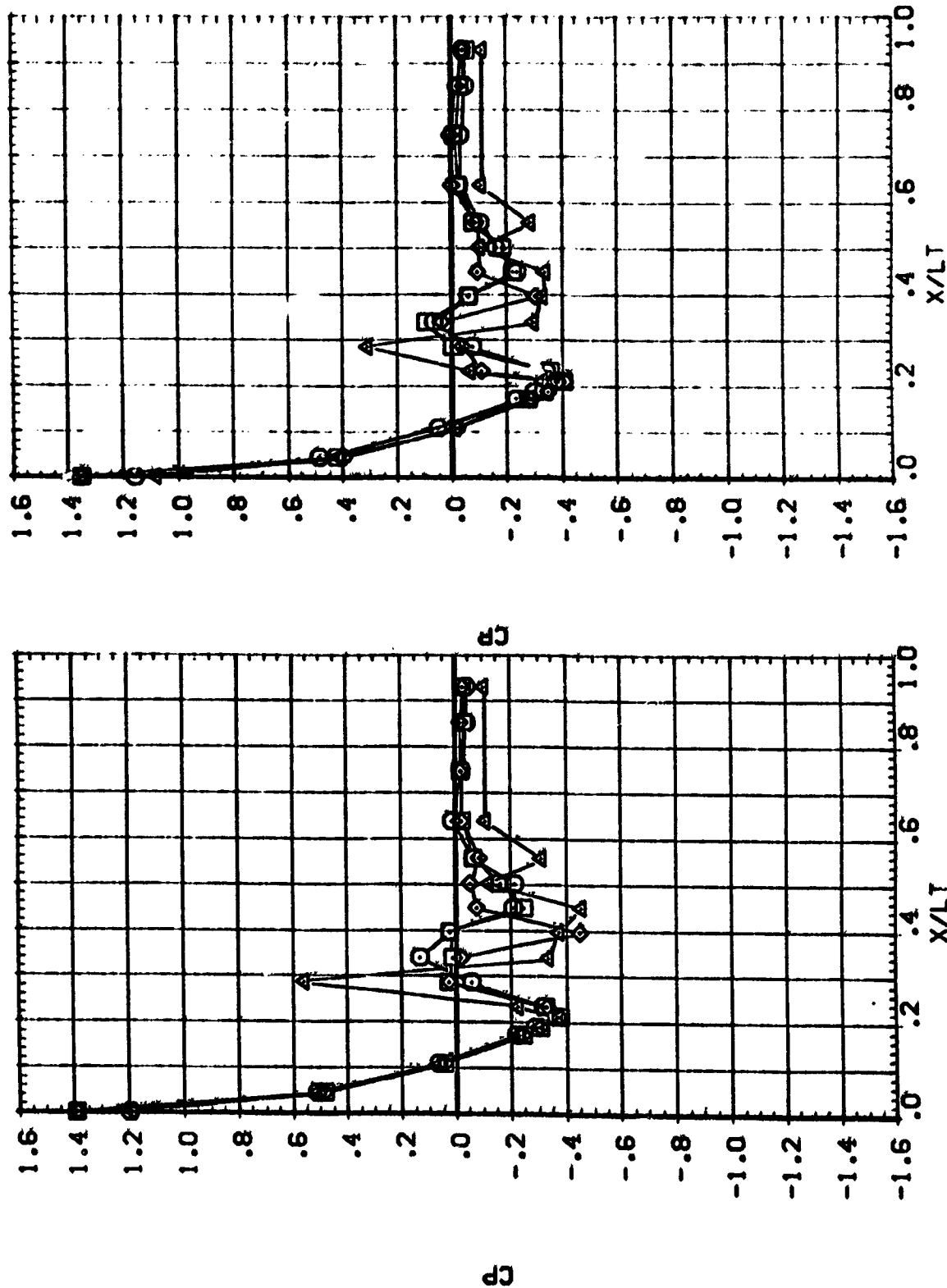
PARAMETRIC VALUES
ALPHAT -4.000 ORBINC .500
RJOER .000 ELEVON .000
RJOFLR .000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 11-707 IAS 02A + S3 + T9 EXTERNAL TANK (RBMT05)

SYMBOL	PHI	BETAT	MACH	PARAMETRIC VALUES
○	.000	4.120	1.241	ALPHAT
□	30.000	8.210		RUDER
◇	60.000			REDFLR
△	90.000			
				ORBITC
				ELEVON
				.000
				.000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES



AMES 11-707 1A9 02A + S3 + T9 EXTERNAL TANK (RBMT05)

SYMBOL
○
□
◇
△

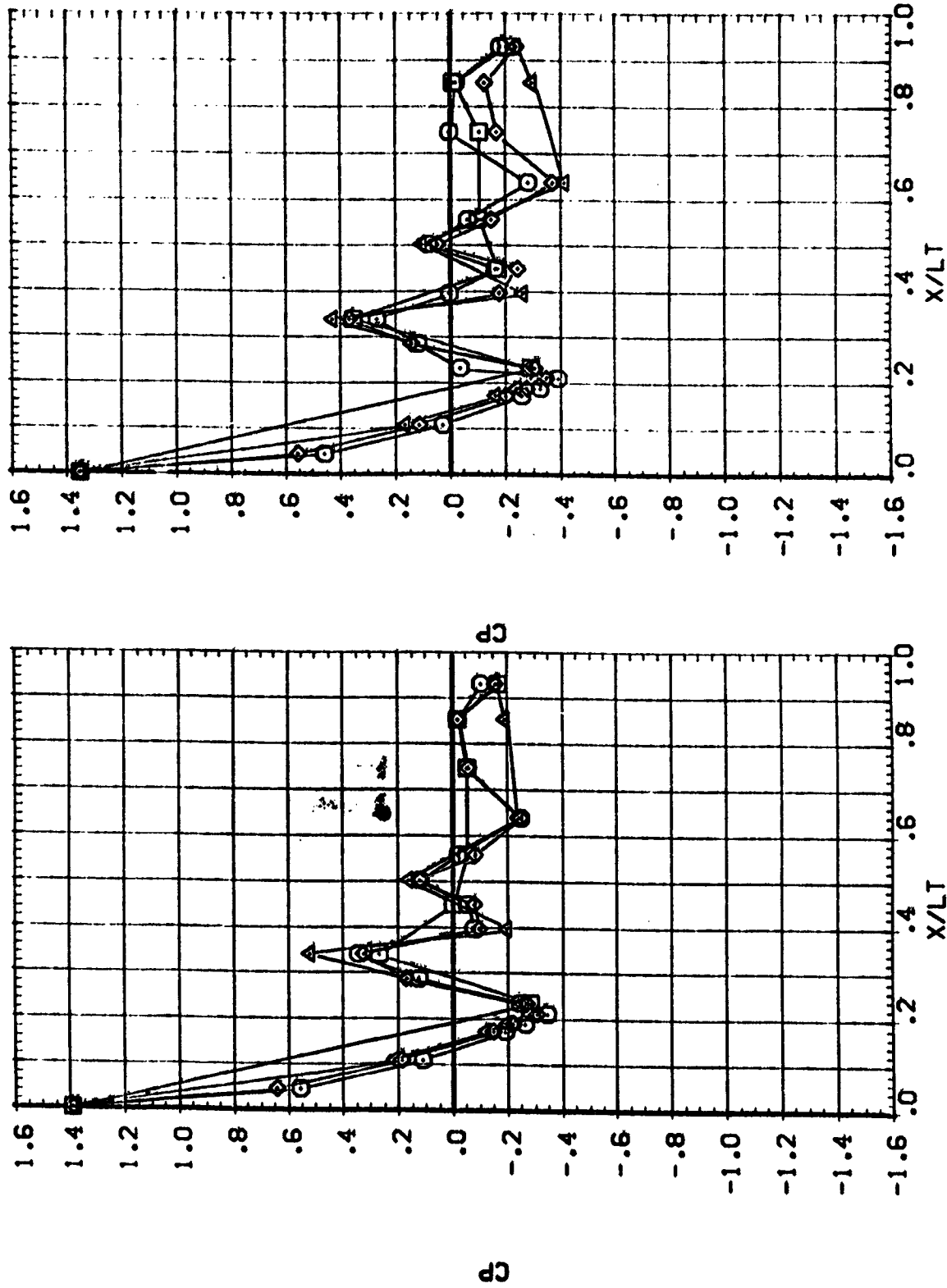
PHI 120.000
135.000
150.000
165.000

BETAT 4.120
8.210

MACH 1.24:

PARAMETRIC VALUES
ALPHAT -4.000
R_JDOR .000
R_JDORL .000

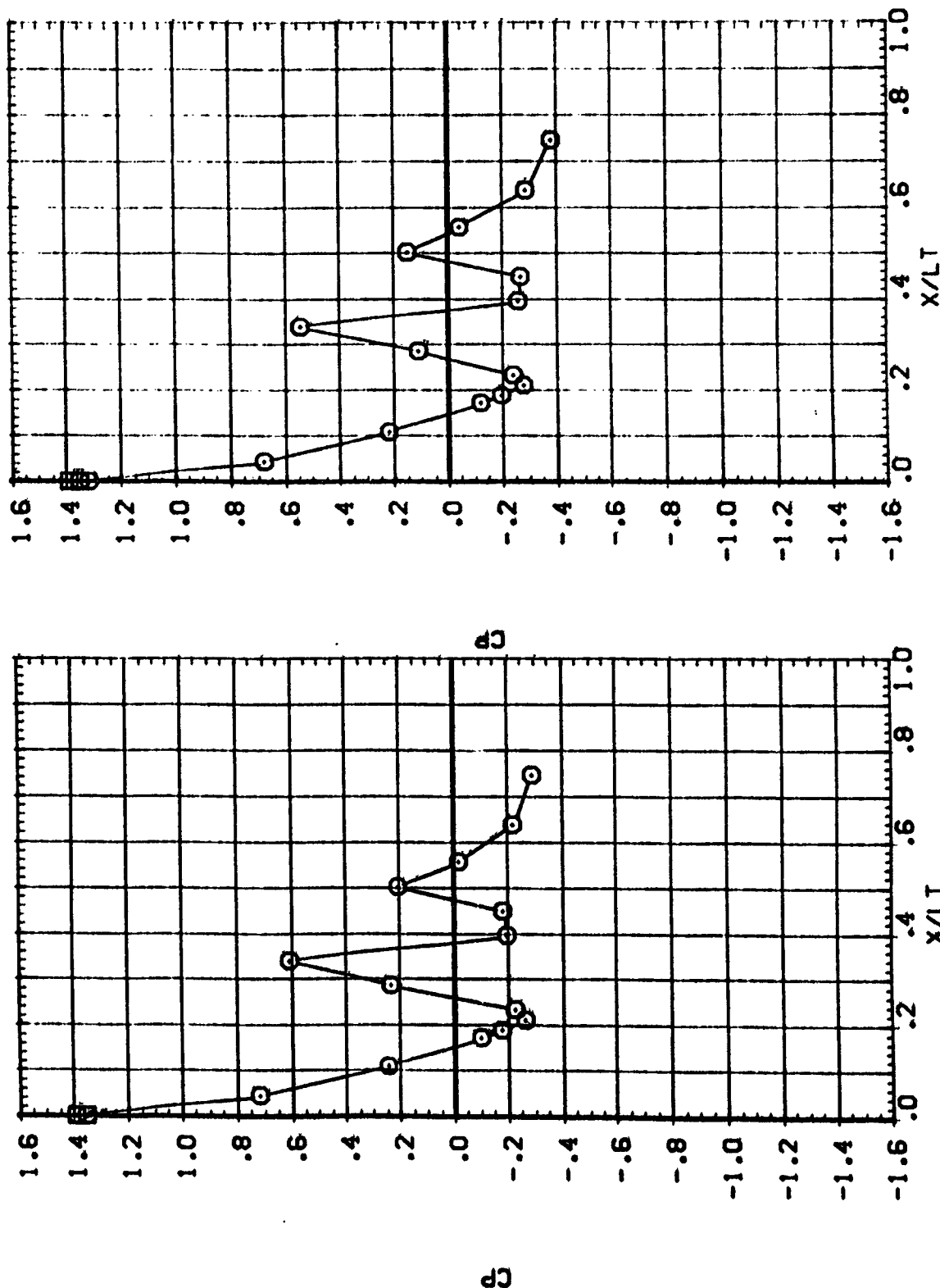
.500
.000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 11-707 1A9 02A + S3 + T9 EXTERNAL TANK (RBMT05)

SYMBOL	PHI	BETA	MACH	PARAMETRIC VALUES	
○	180.000	4.120	1.241	ALPHA-T	ORBIT
□	270.000	8.210		RJ00R	ELEVON
				RJ0FLR	
					.500
					.000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES



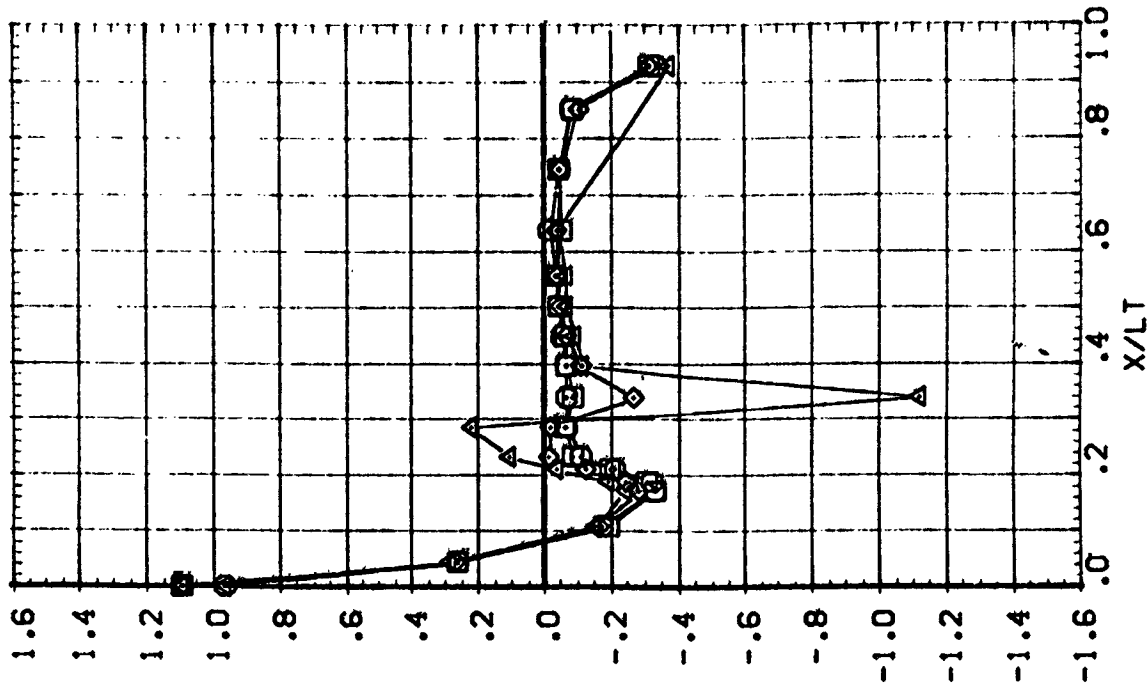
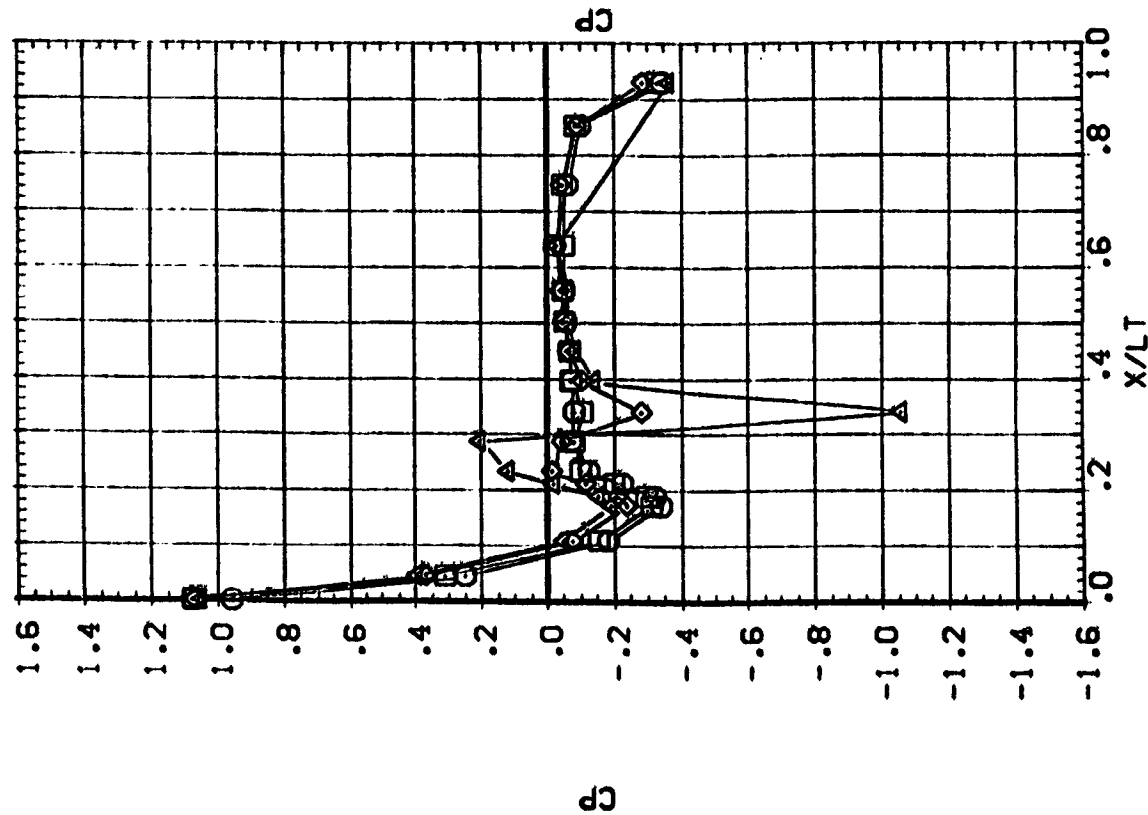
AMES 11-707 1A9 02A + S3 + T9 EXTERNAL TANK (RBMT07)

SYMBOL
□
◇
△

PHI
.000
30.000
60.000
90.000

BETAT MACH
-4.050 .598
.020

PARAMETRIC VALUES
ALPHAT .000 CRBINC .500
RUDDER .000 ELEVON .000
RUOFLR .000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 11-707 1A9 02A + S3 + T9 EXTERNAL TANK (RBMT07)

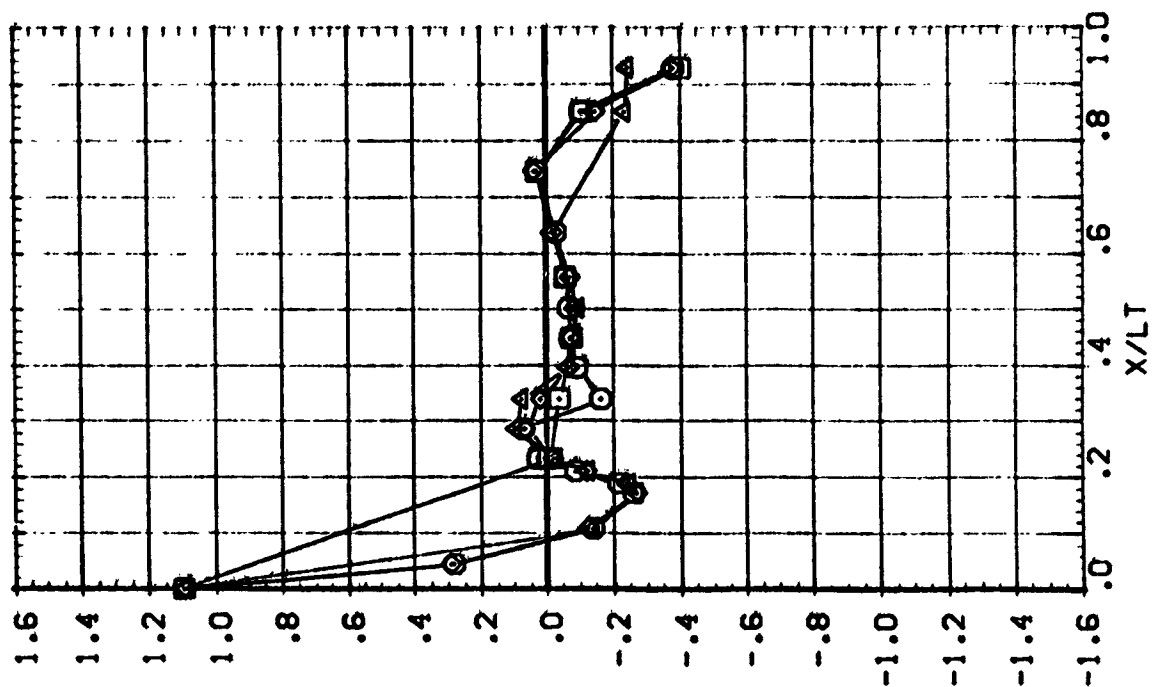
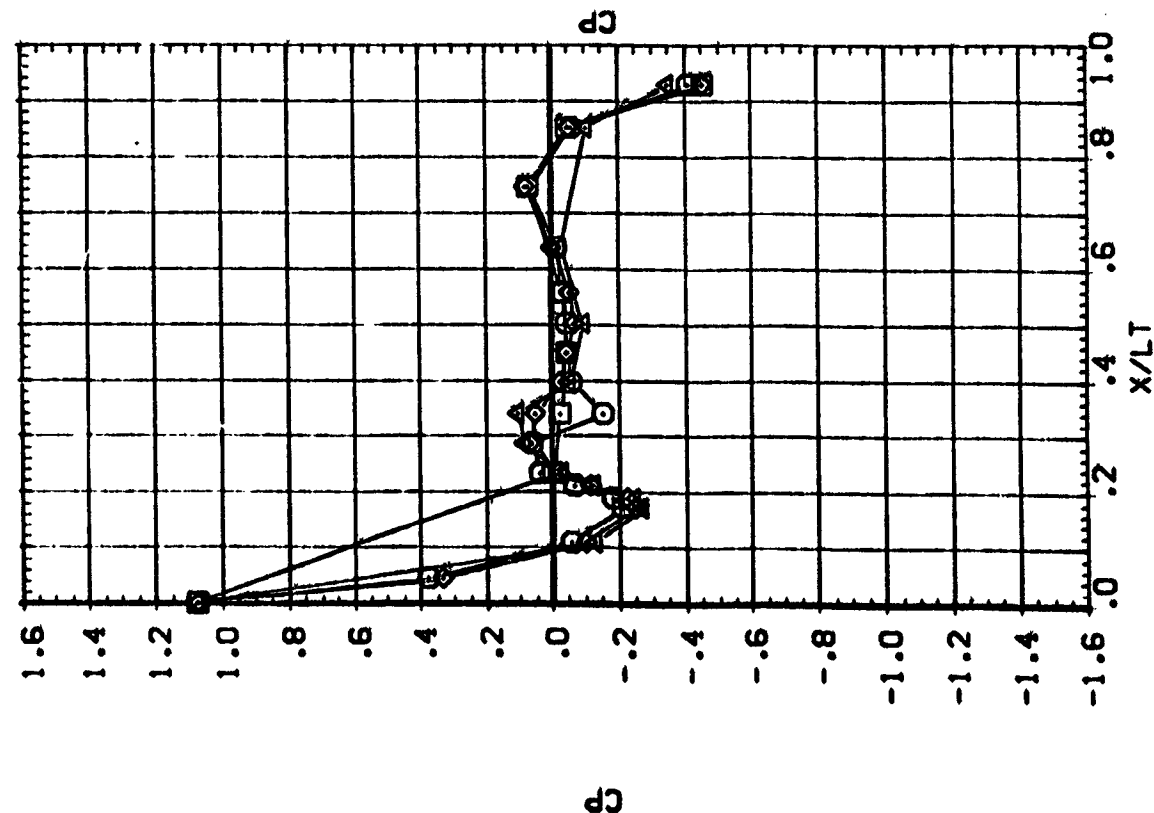
SYMBOL
 □
 ◇
 △

PH: 120.000
 135.000
 150.000
 165.000

BETAT -4.050
 .020

MACH .598

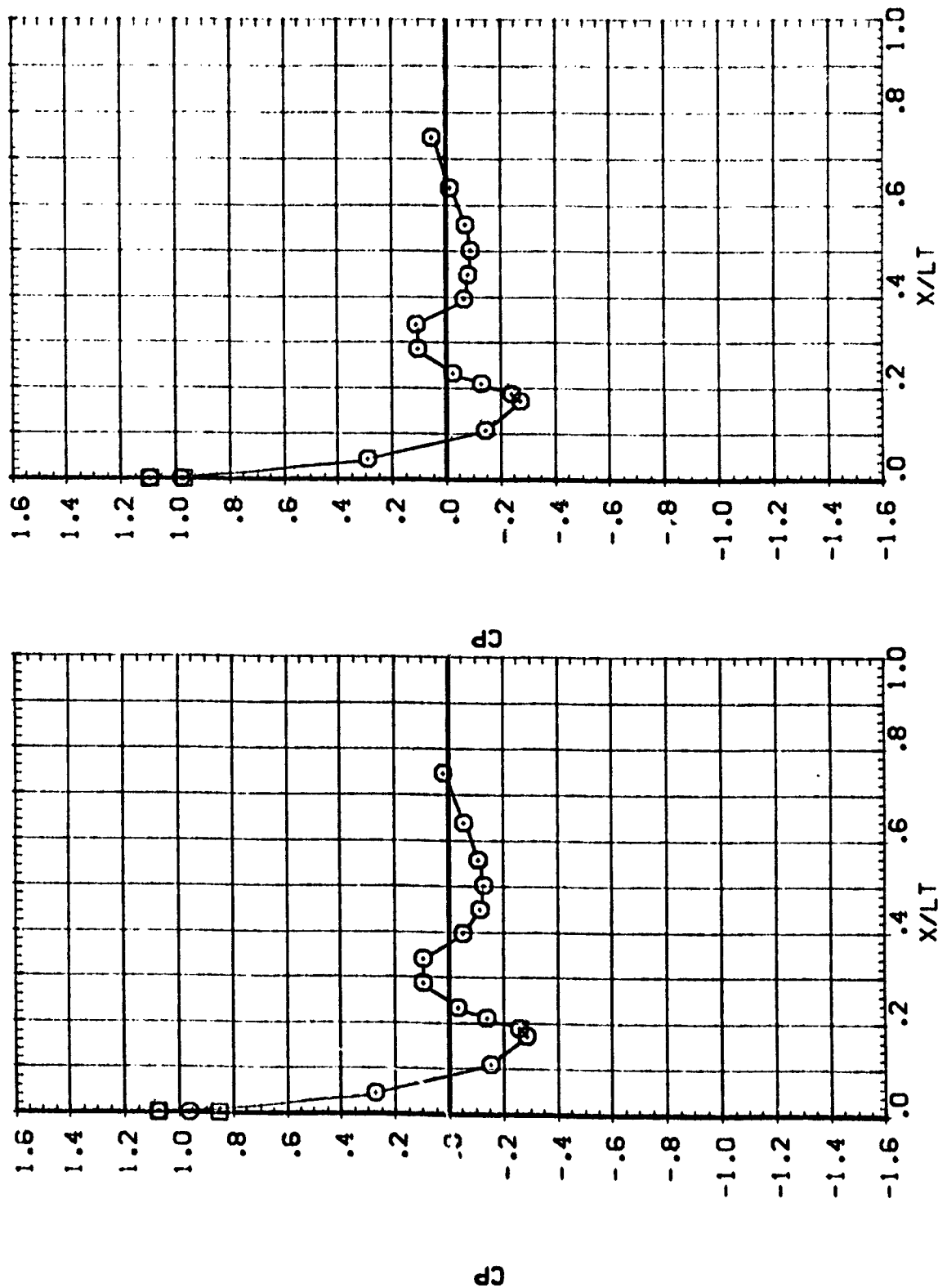
PARAMETRIC VALUES
 ALPHAT .000 OBS'INC .500
 RLODR .000 ELEVON .000
 RLOFLR .000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

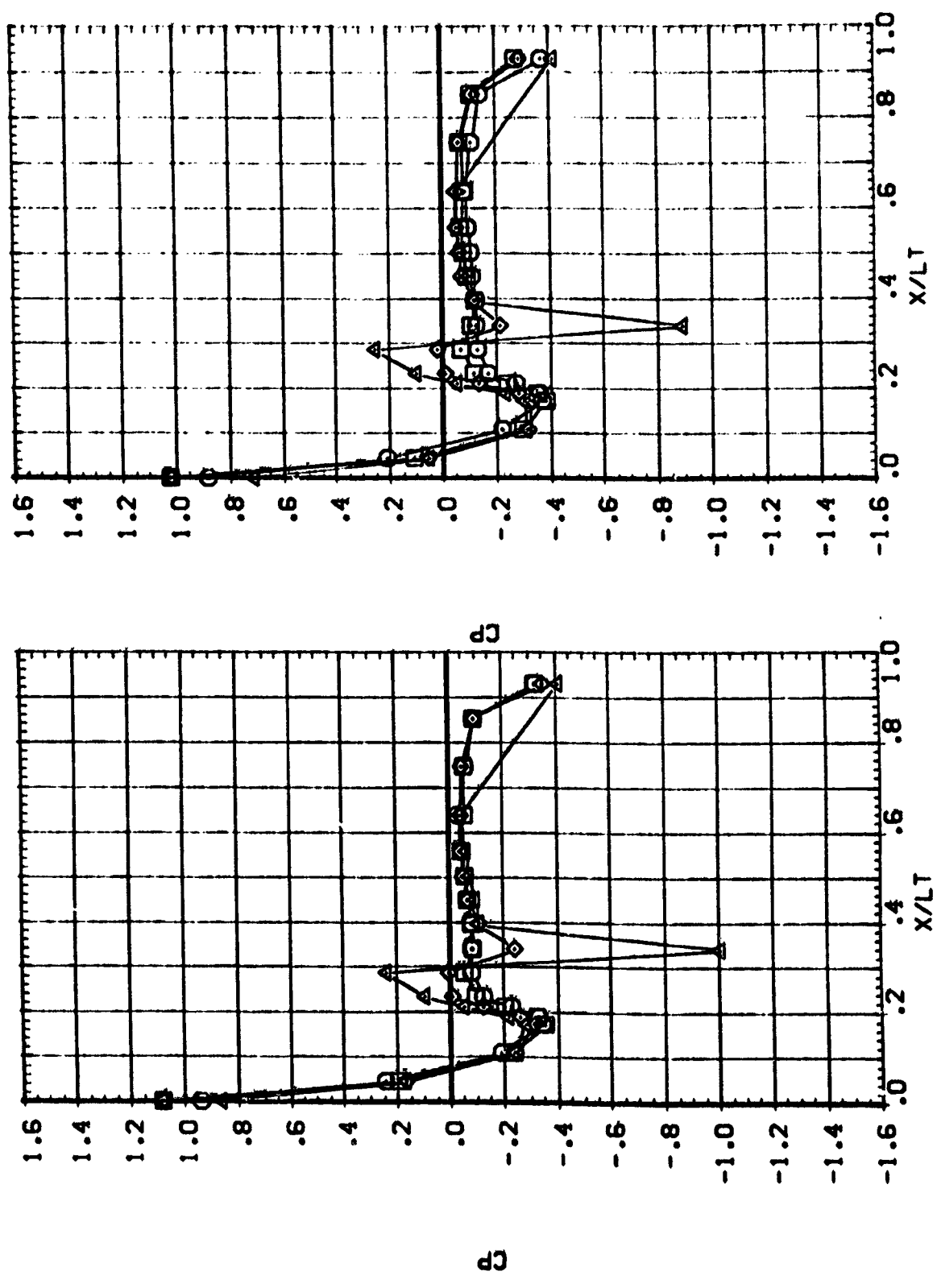
AMES 11-707 1A9 02A + S3 + T9 EXTERNAL TANK (RBMT07)

SYMBOL	PMI	BETAT	MACH	PARAMETRIC VALUES	
	180.000	-4.050	.598	ALPHAT	.000
	270.000	.020		RUDDER	.000
				RJDFLR	.000
				ORBITAL	.500
				ELEVON	.000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

SYMBOL	PHI	BETAT	MACH	ALPHAT	PARAMETRIC VALUES
○	.000	4.080	.599	R/DOR	.000 ORBINC
◇	30.000	8.140		R/DCLR	.000 ELEVON
△	60.000				.000
	90.000				



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES



AMES 11-707 1A9 G2A + S3 + T9 EXTERNAL TANK (RBMT07)

SYMBOL
□
○
◇
△

PHI
120.000
135.000
150.000
165.000

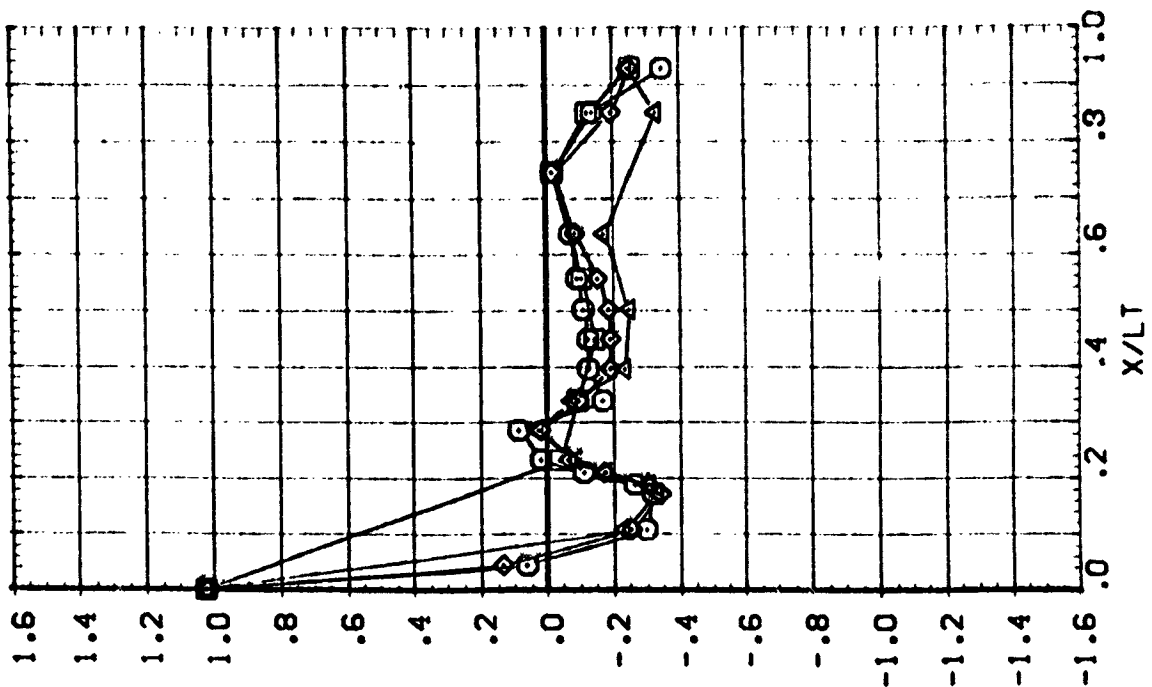
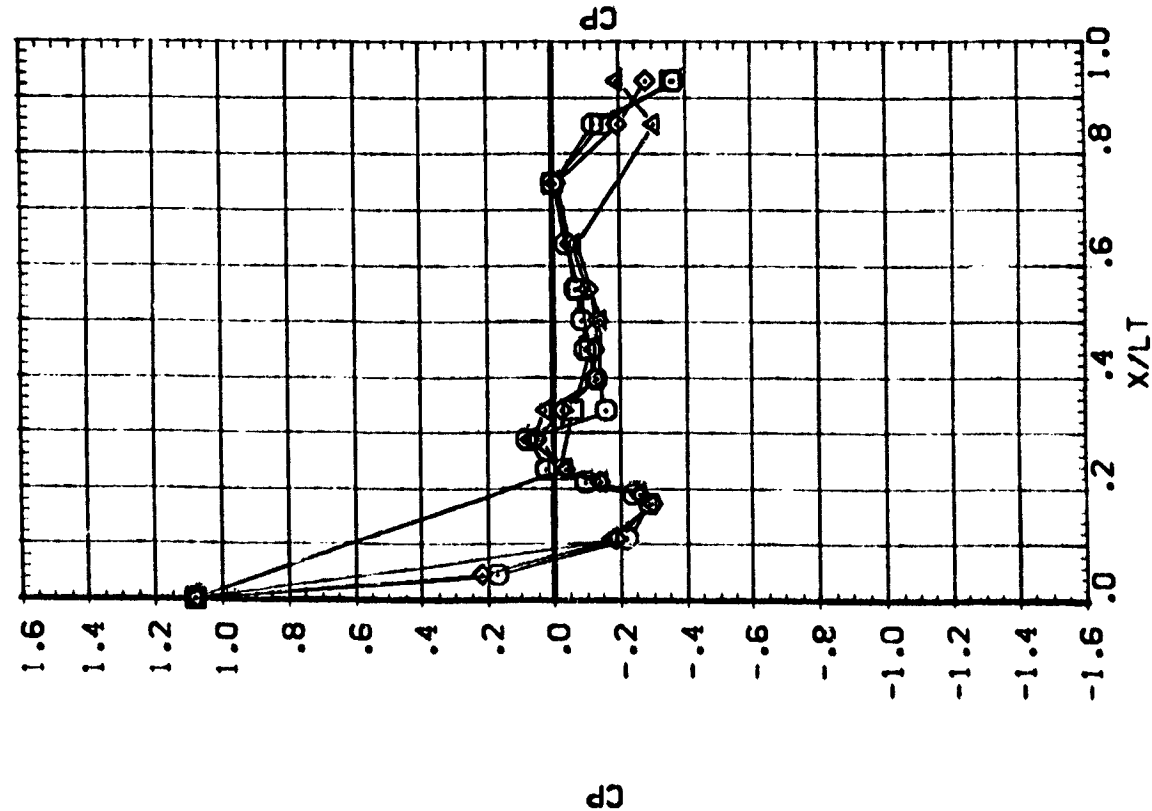
BETAT
4.080
8.140

MACH
.599

PARAMETRIC VALUES

ALPHAT
RUDDER
RUDFLR

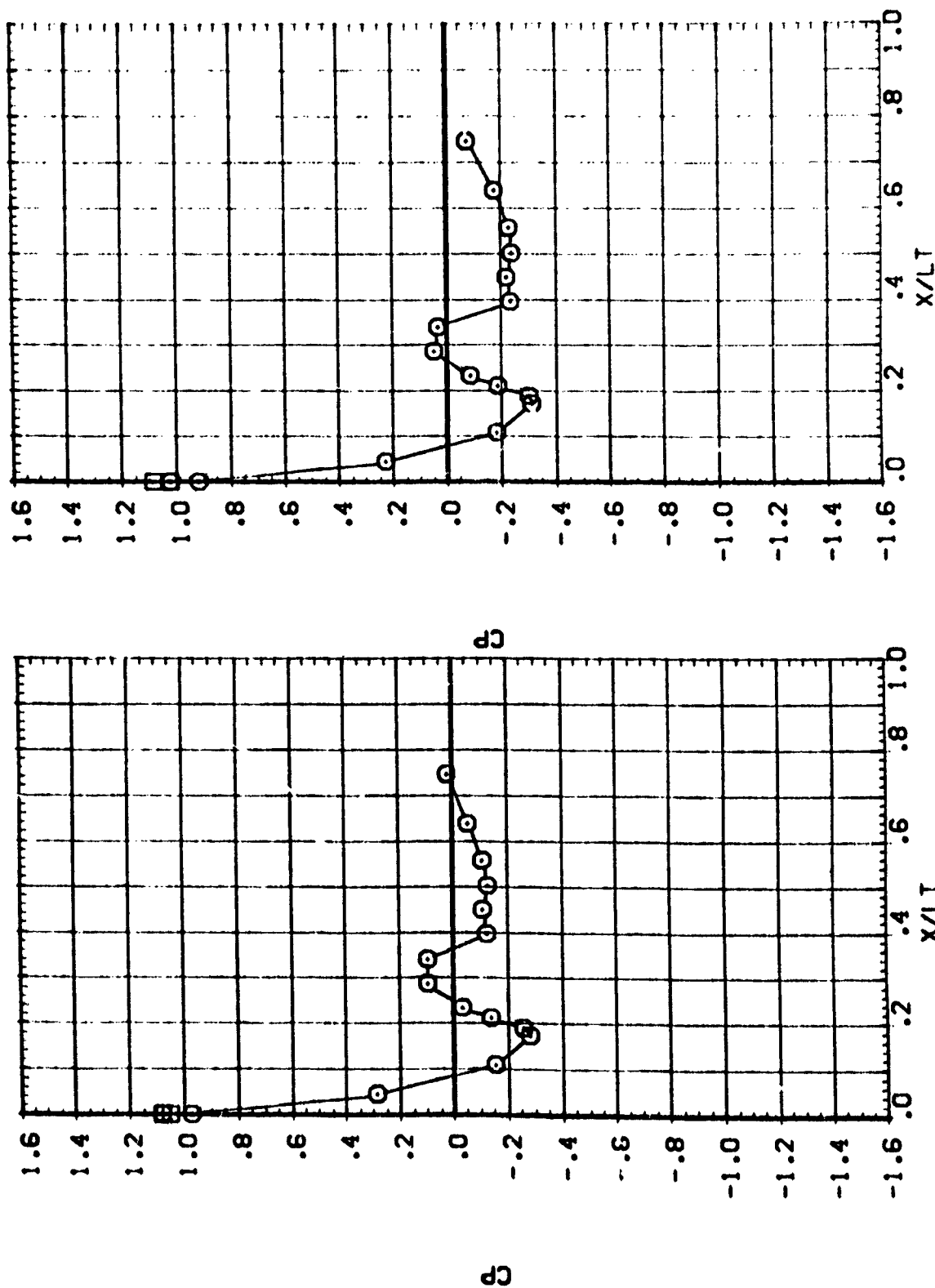
.000
.000
.000
ORBITC
ELEVON
.500
.000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 11-707 1A9 02A + S3 + T9 EXTERNAL TANK (RBMT07)

SYMBOL	PMI	BETAT	MACH	PARAMETRIC VALUES
011	180.000	4.080	.599	ALPHAT .000 CRBINC .500
	270.000	8.140		RJDFLR .000 ELEVN .000



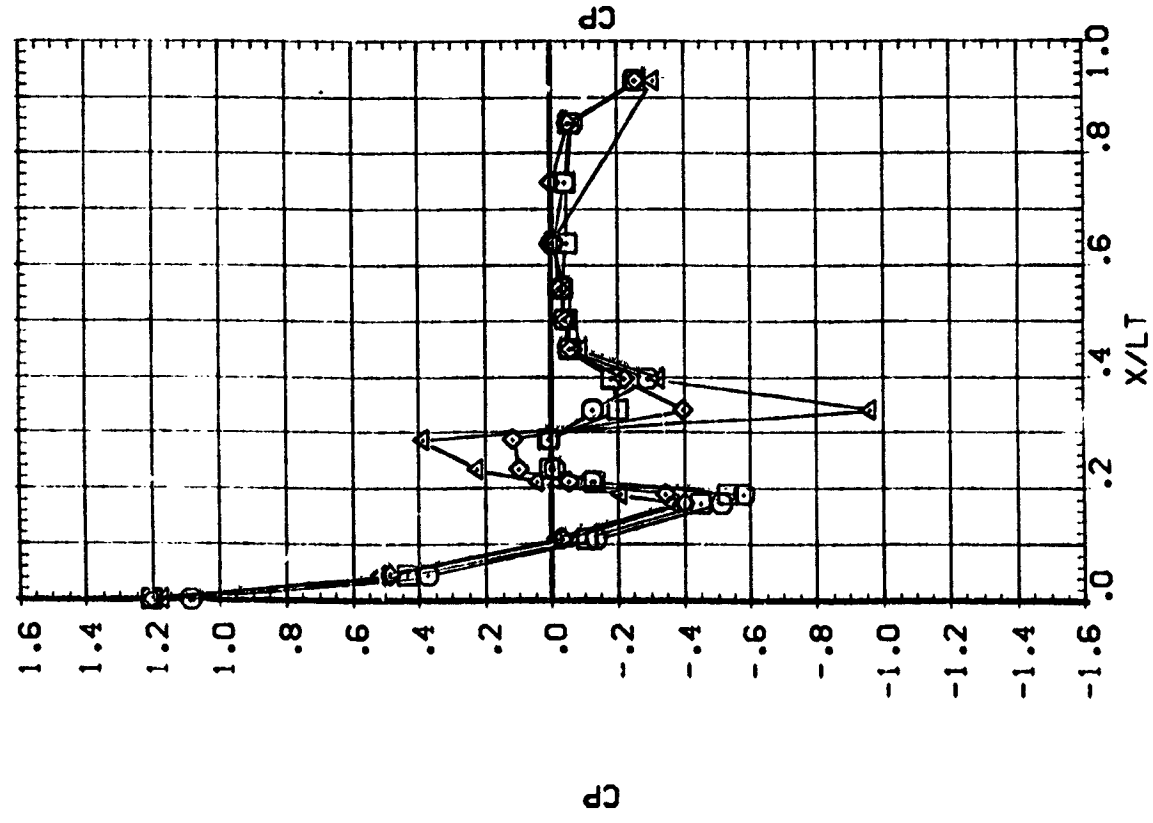
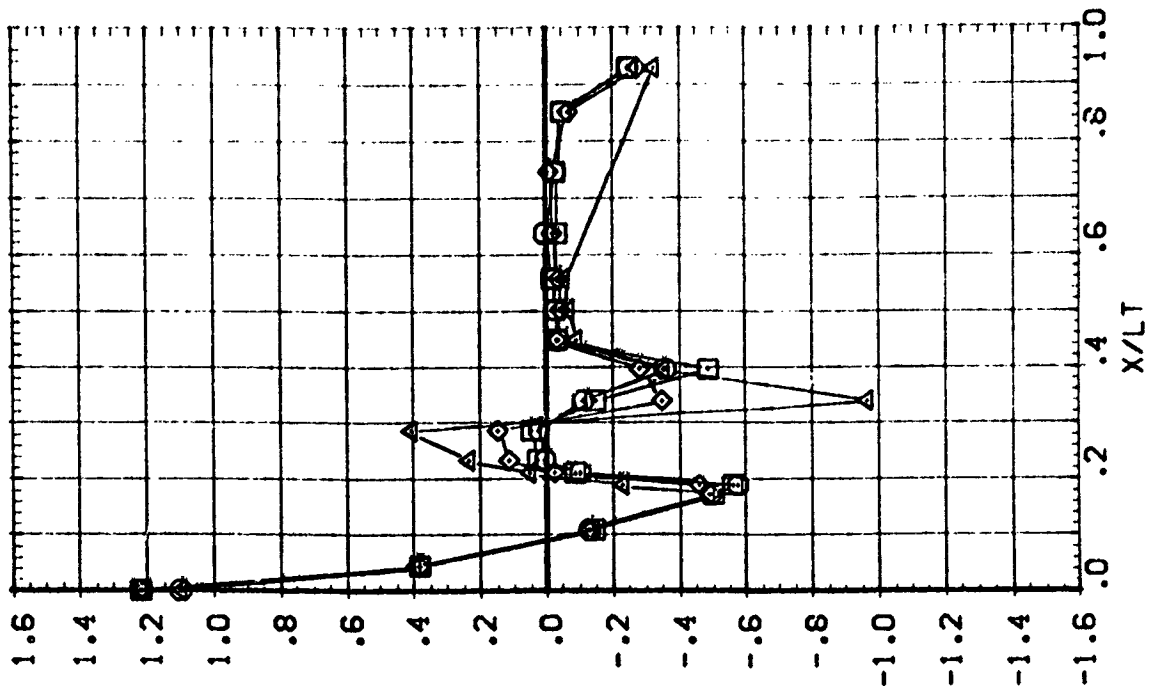
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 11-707 1A9 02A + S3 + T9 EXTERNAL TANK (RBMT07)

PARAMETRIC VALUES
 ALPHAT .000 ORBINC .500
 RUDDER .000 ELEVON .300
 RUDDER .000

PHI .000 MACH .899
 30.000
 60.000
 90.000

SYMBOL
 ○
 ◇
 △



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

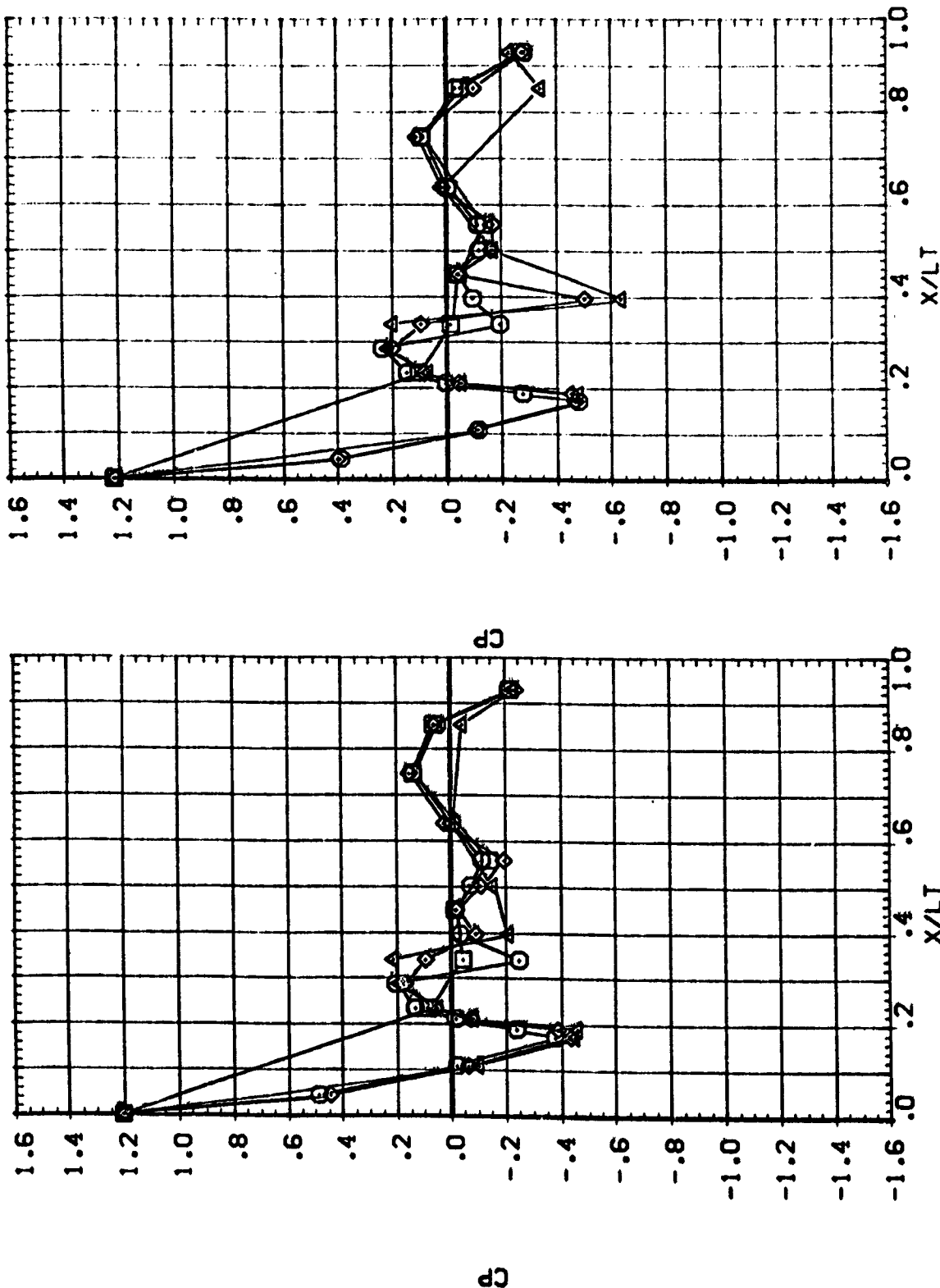
AMES 11-707 1A9 02A + S3 + T9 EXTERNAL TANK (RBMT07)

SYMBOL
 ○ □ ◇ △

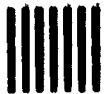
PHI 120.000
 135.000
 150.000
 165.000

BETAT - MACH
 -4.000 .699
 .020

PARAMETRIC VALUES
 ALPHAT .000 DRB:NC .500
 RJOER .000 ELEVON .000
 RJOELR .000

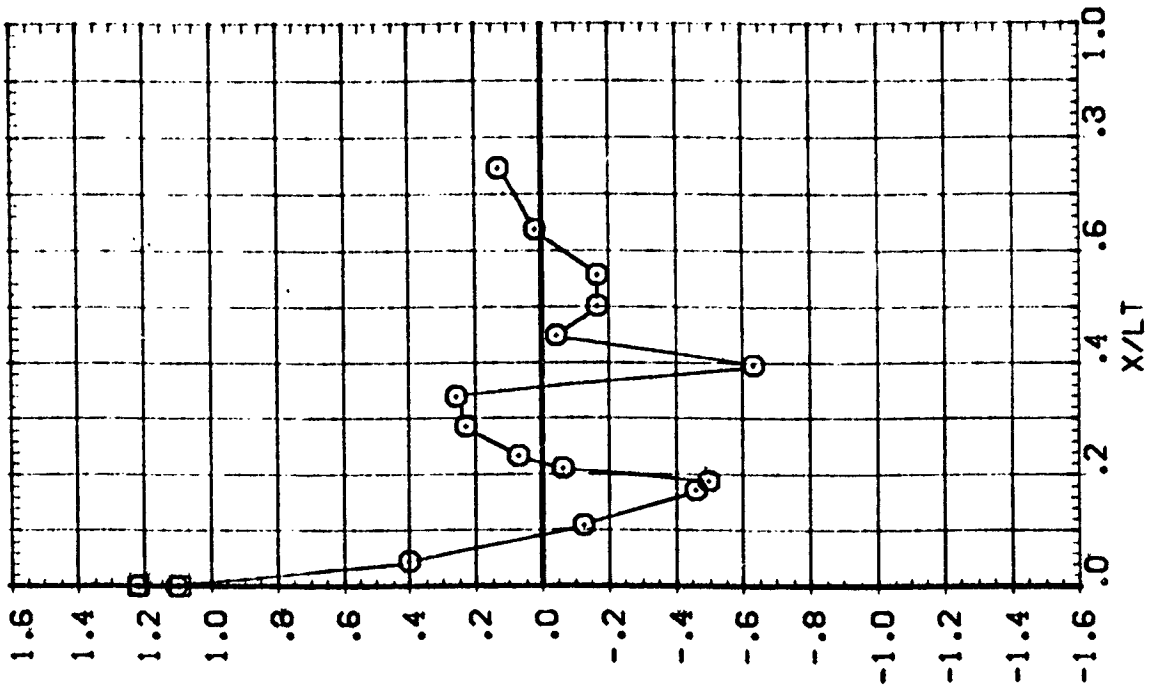
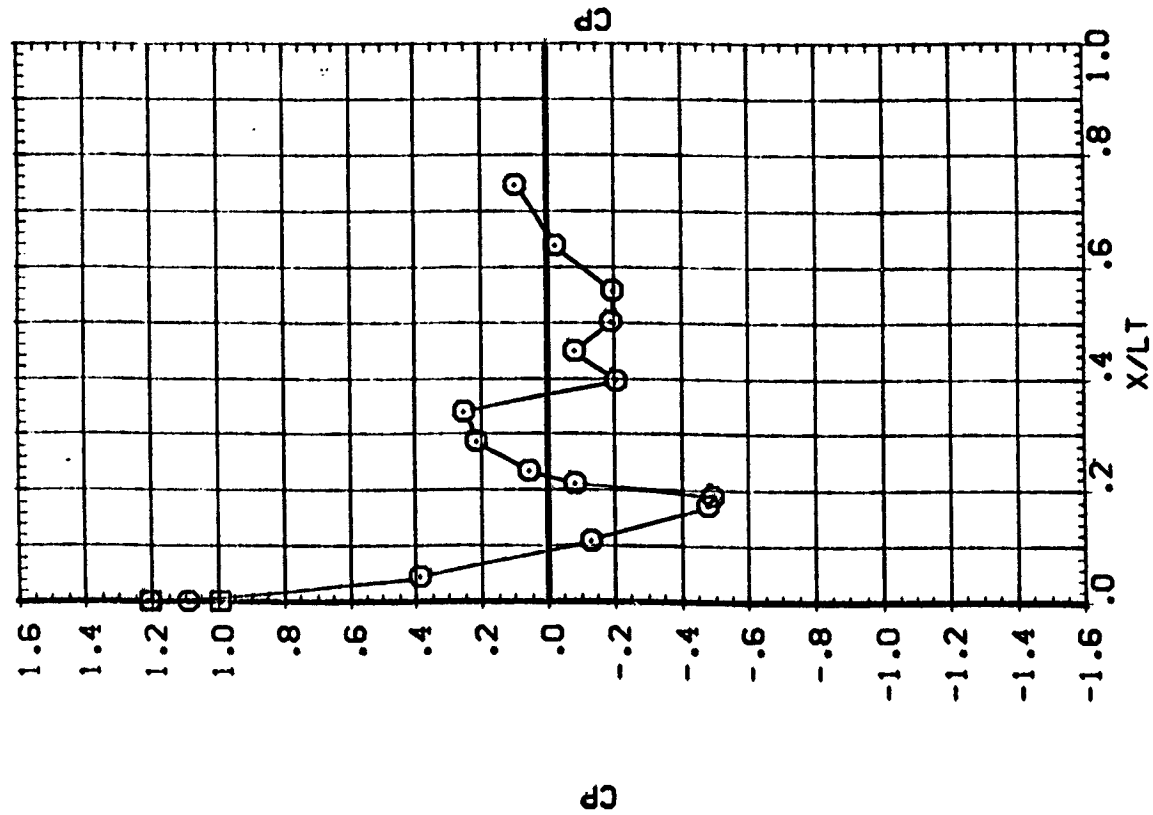


LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES



AMES 11-707 IAG C2A + S3 + T9 EXTERNAL TANK (RBMT07)

SYMBOL: 180.000 270.000
 PARAMETRIC VALUES: ALPHAT .000 DRBINC .500
 RUDDER .000 ELEVON .000
 RUDELIR .000



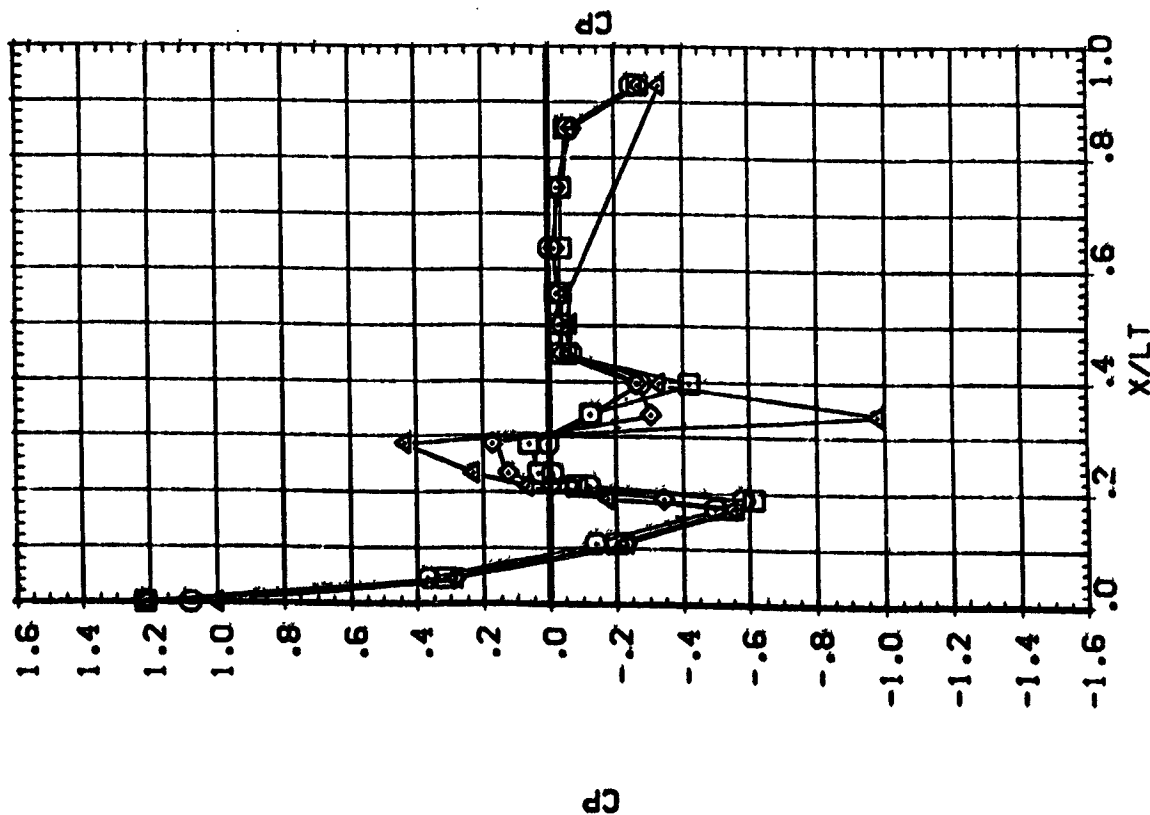
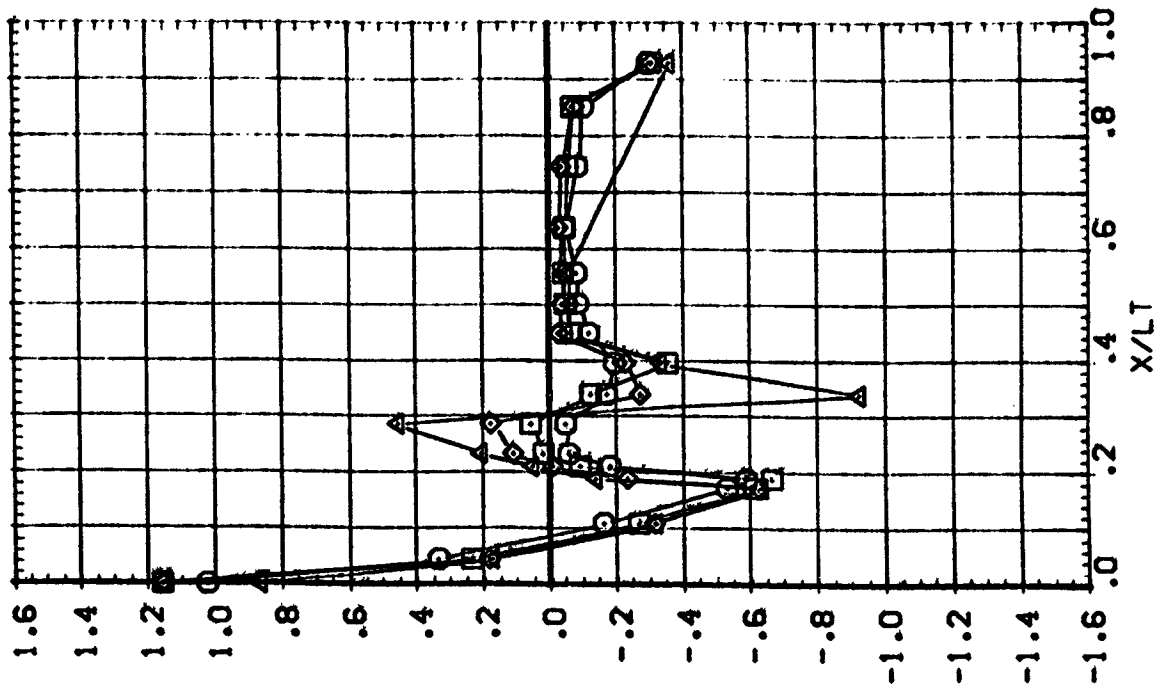
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

PARAMETRIC VALUES
 .000 .000 .500
 .000 .000 .000
 .000 .000 .000

ALPHA
 RUDDER
 RUDFLR

PHI BETAT MACH
 .000 4.120 .906
 30.000 8.220
 60.000
 90.000

SYMBOL
 ○ □ ◇ △



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES



AMES 11-707 IA9 02A + S3 + T9 EXTERNAL TANK (RBMT07)

SYMBOL
○ □ ◇ △

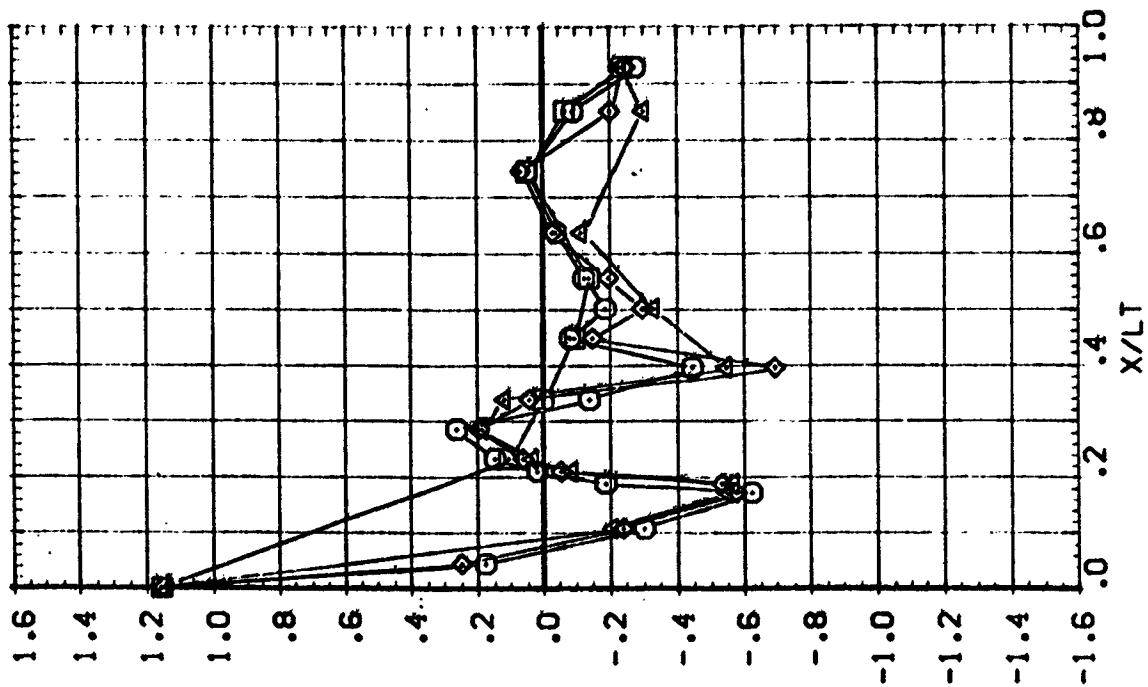
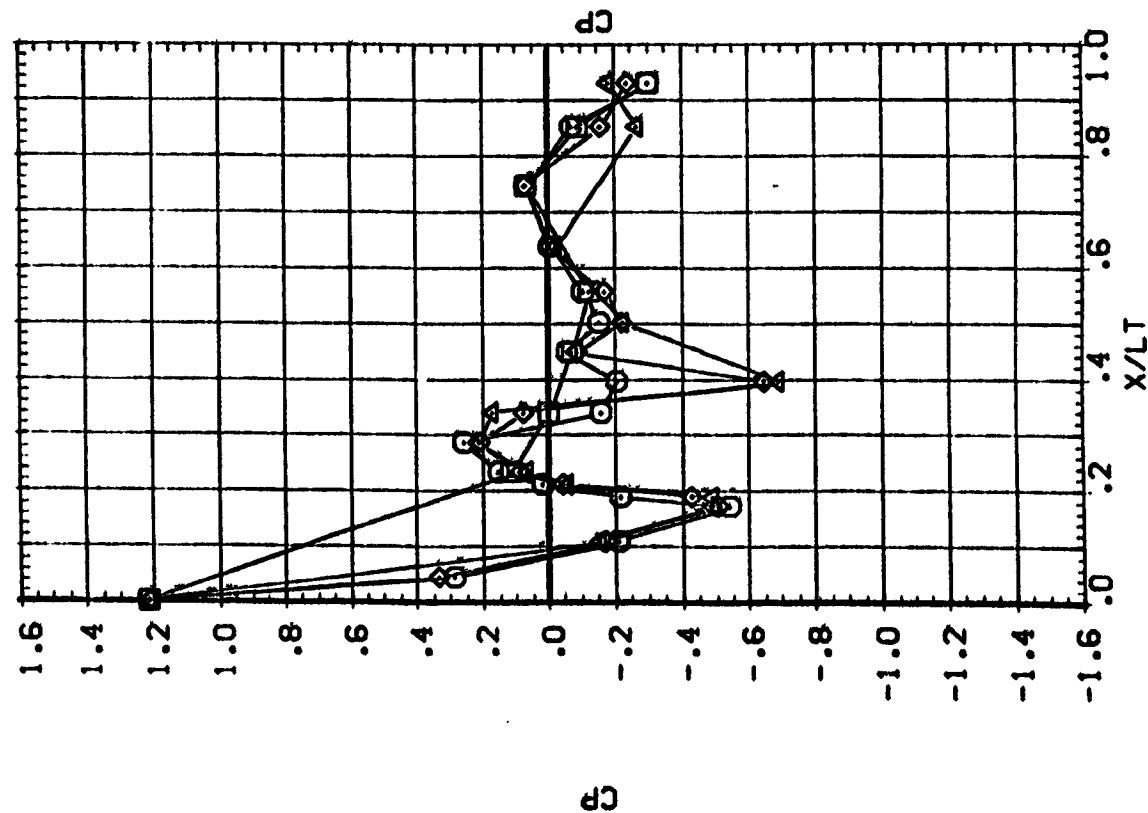
PHI
120.000
135.000
150.000
165.000

BETA
4.120
8.220

MACH
.906

PARAMETRIC VALUES
ALPHA
RUDER
RUDFLR
ORBITAL
ELEVON

.500
.000
.000
.000

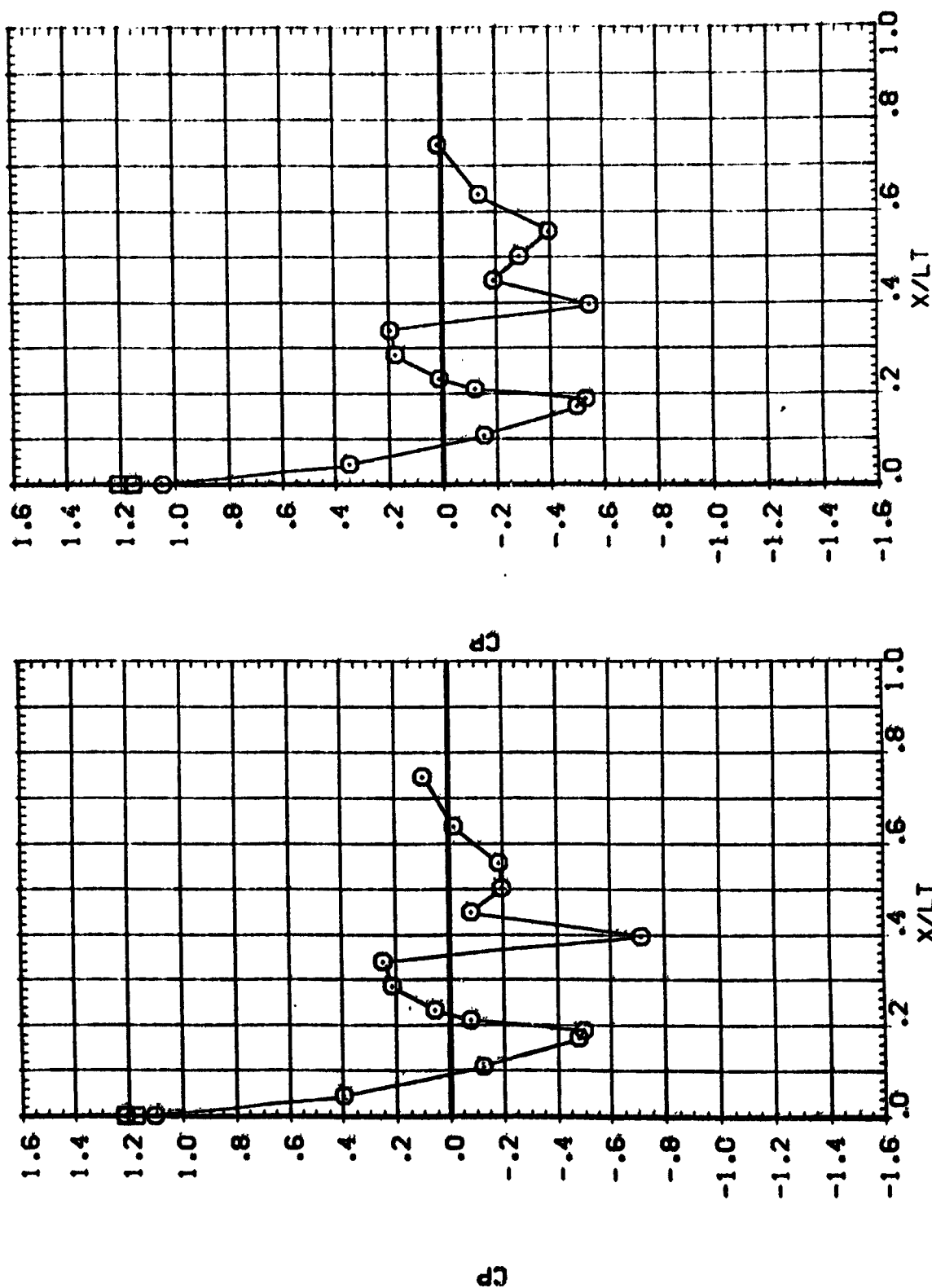


LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES



AMES 11-707 IAS 02A + S3 + T9 EXTERNAL TANK (RBMT07)

SYMBOL	PHI	BETAT	MACH	PARAMETRIC VALUES			
○	180.000	4.120	.906	ALPHAT	.000	DRBINC	.500
□	270.000	8.220		RUDDER	.000	ELEVON	.000
				RUDFLR	.000		



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

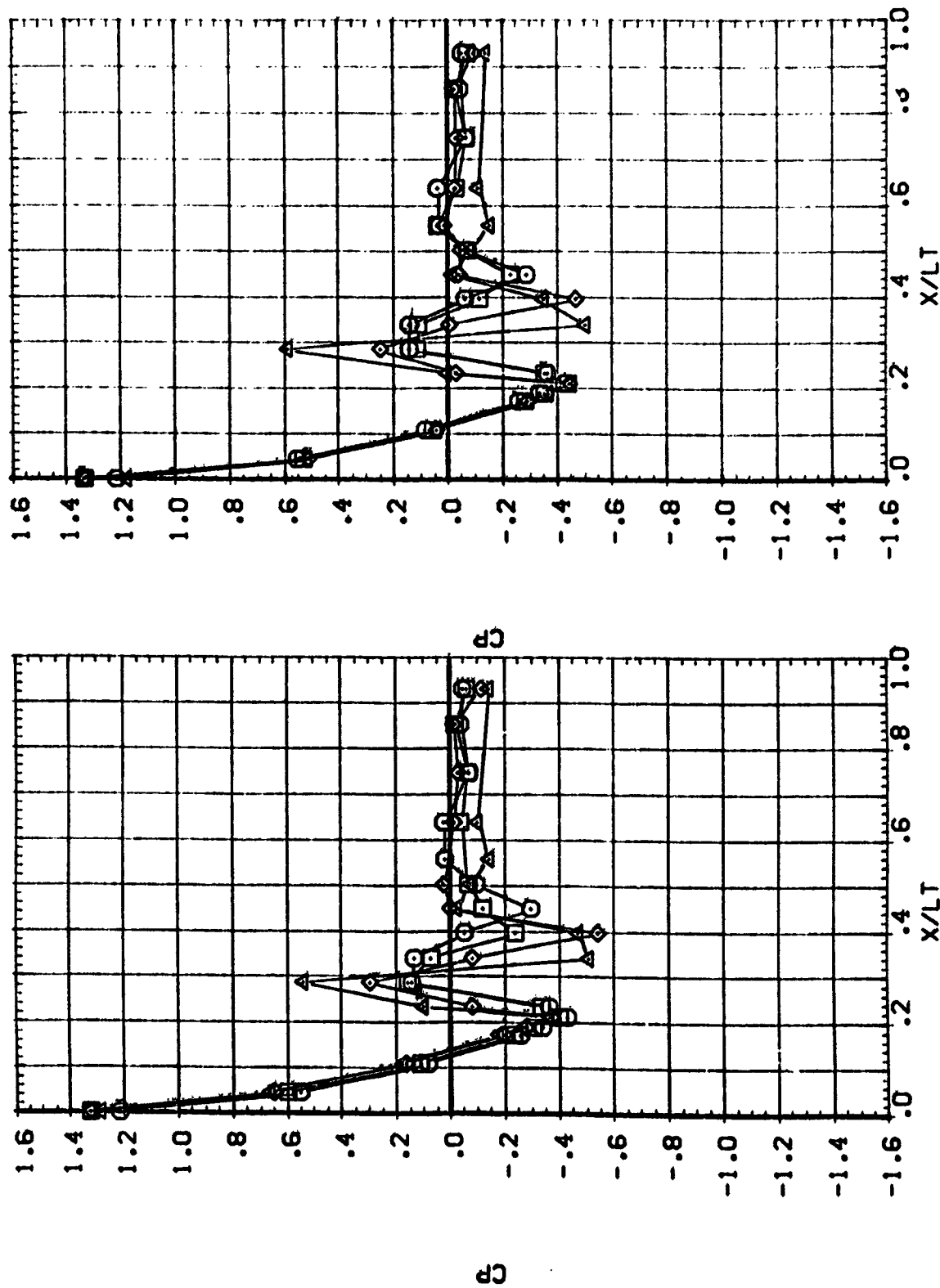


AMES 11-707 1A9 02A + S3 + T9 EXTERNAL TANK (RBMT07)

SYMBOL
○ □ ◇ △

PMI BETAT MACH
.000 -4.080 1.058
30.000 2.070
60.000
90.000

PARAMETRIC VALUES
ALPHAT .000 ORBINC .500
RUDDER .000 ELEVON .000
RUFLR .000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 11-707 1A9 02A + S3 + T9 EXTERNAL TANK (RBMT07)

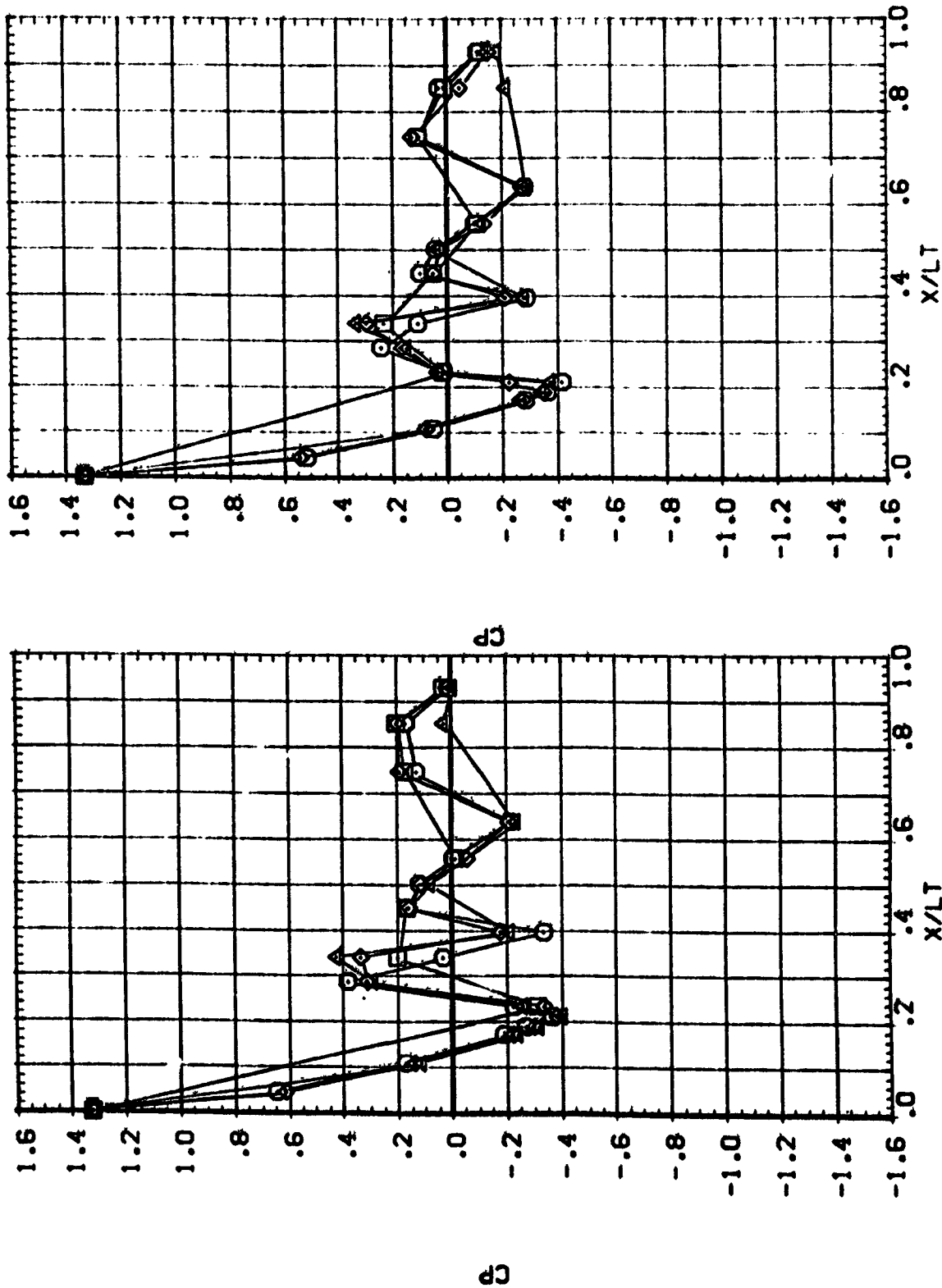
SYMBOL
 ○ □ ◇ △

PHI
 120.000
 135.000
 150.000
 165.000

BETAT
 -4.080
 2.070

MACH
 1.058

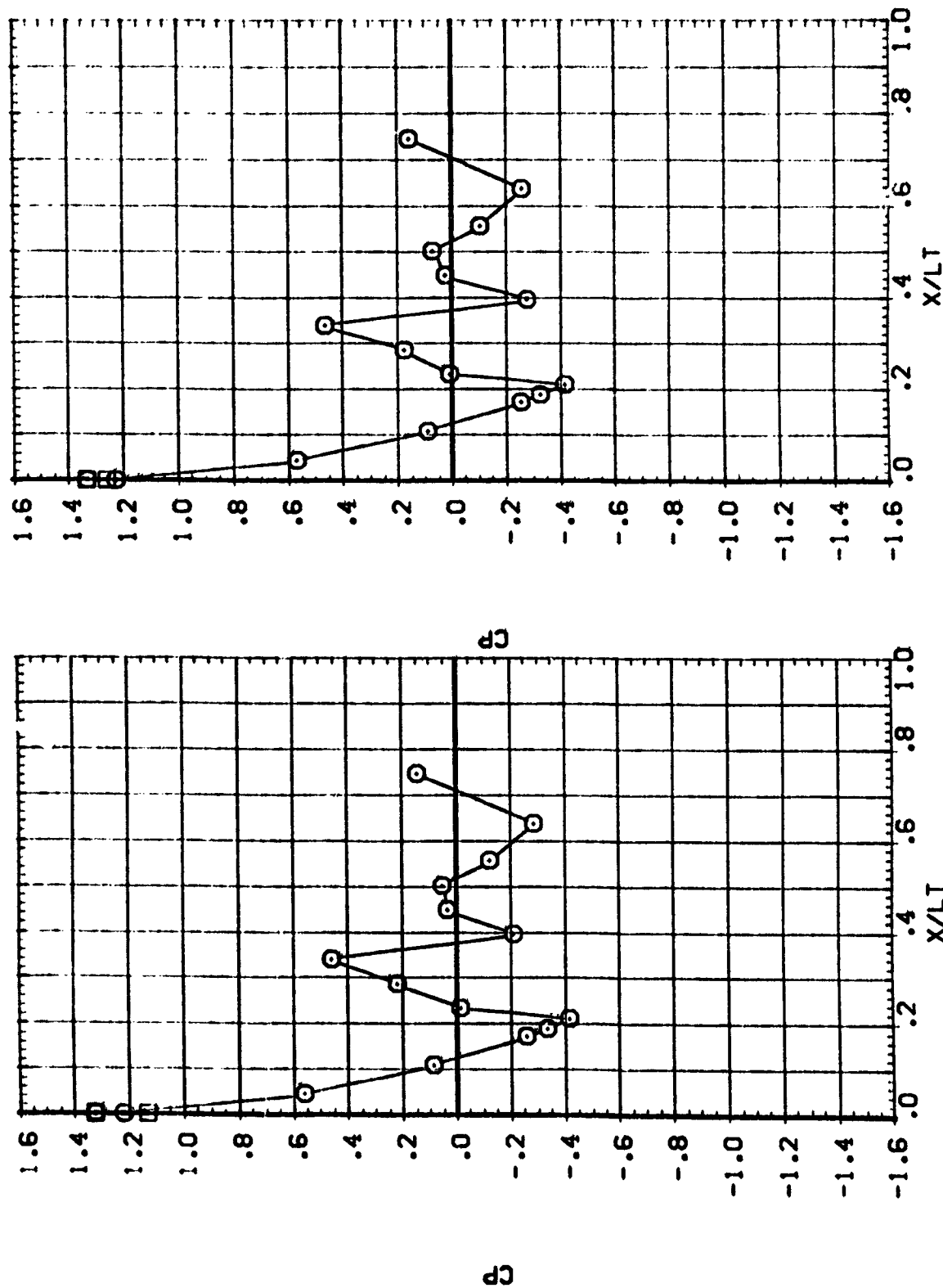
PARAMETRIC VALUES
 ALPHAT .000 ORBINC .500
 RUDDER .000 ELEVON .000
 RUFLR .000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 11-707 1A9 02A - S3 + T9 EXTERNAL TANK (RBMT07)

SYMBOL	PHI	BETAT	MACH	PARAMETRIC VALUES
○	180.000	-4.080	1.098	.000
□	270.000	2.070		.000
				ALPHAT
				RJDDER
				RJDFLR

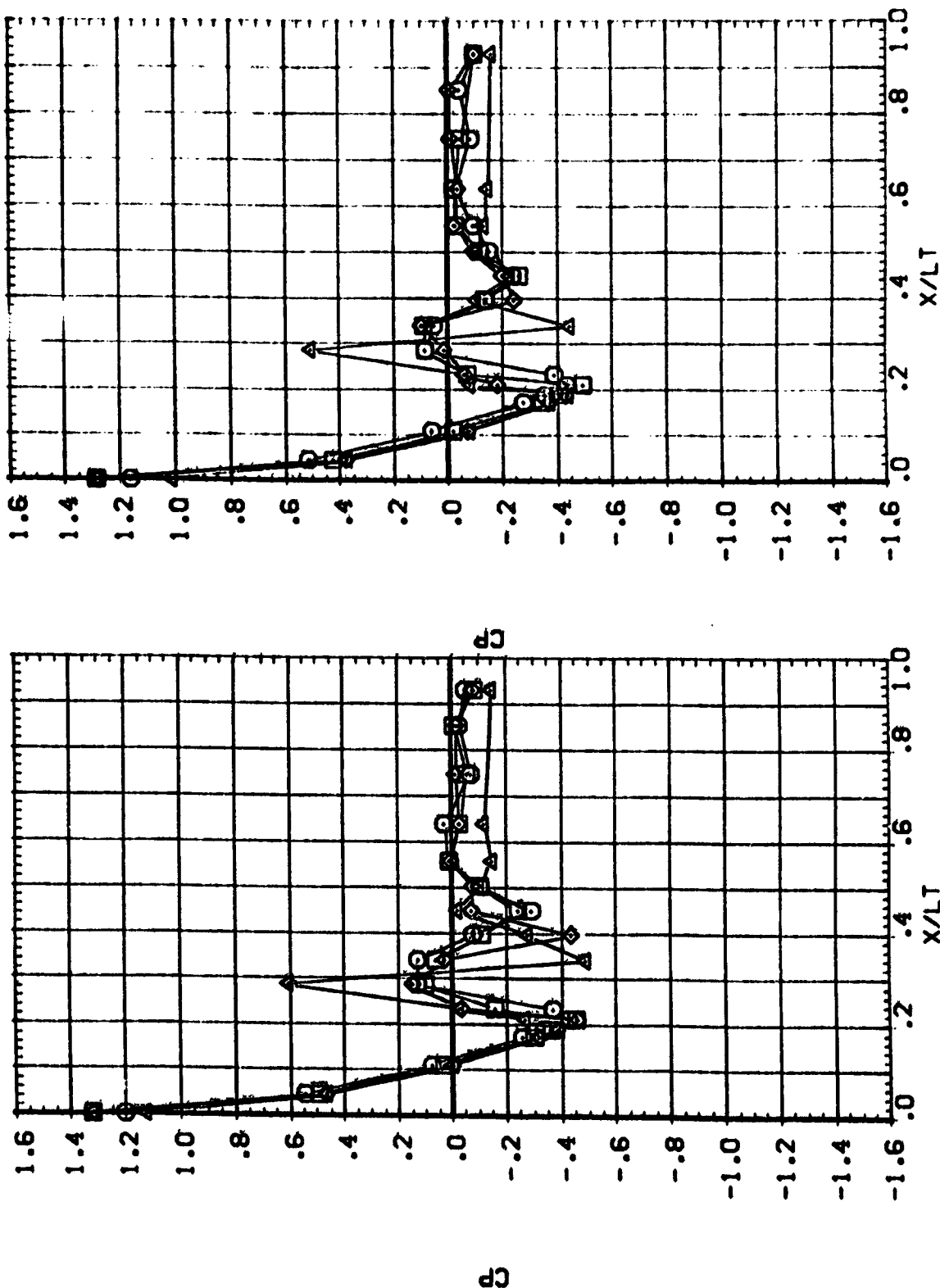


LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 11-707 IA9 02A + S3 + T9 EXTERNAL TANK (RBMT07)

PHI	BETAT	MACH	ALPHAT	PARAMETRIC VALUES
.000	4.140	1.100	RUDDER	.000
30.000	8.250		RUDFLR	.000
60.000				.500
90.000				.000

SYMBOL
 ○ □ ◇ △



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 11-707 1A9 C2A + S3 + T9 EXTERNAL TANK (RBMT07)

SYMBOL
 ○ □ △

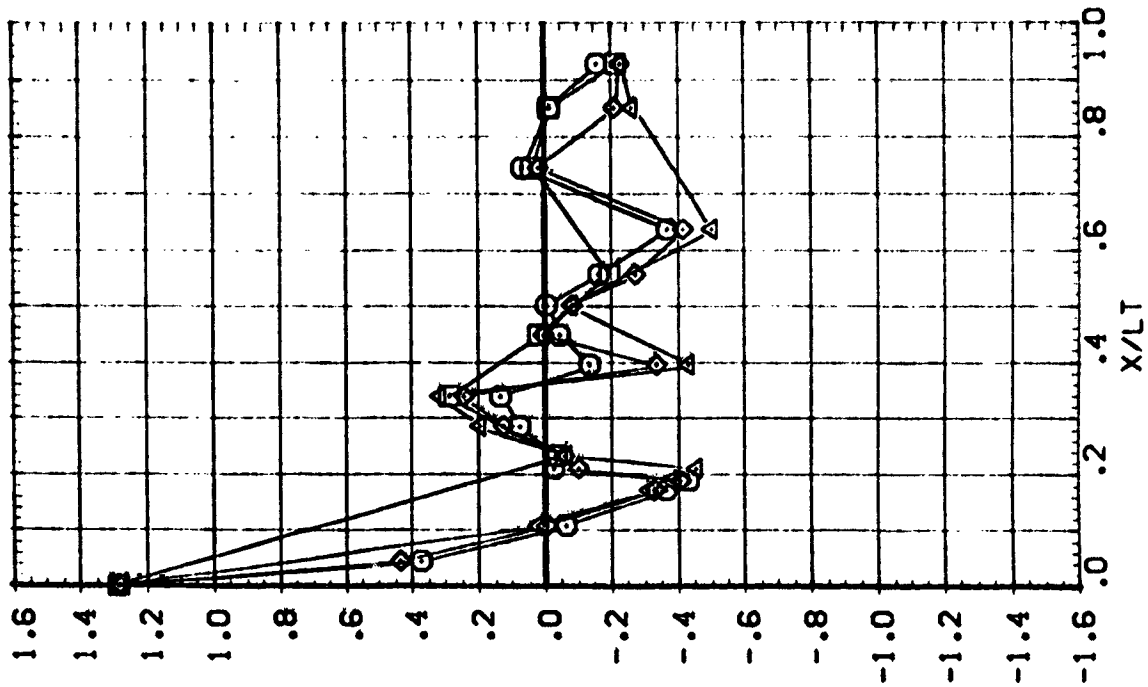
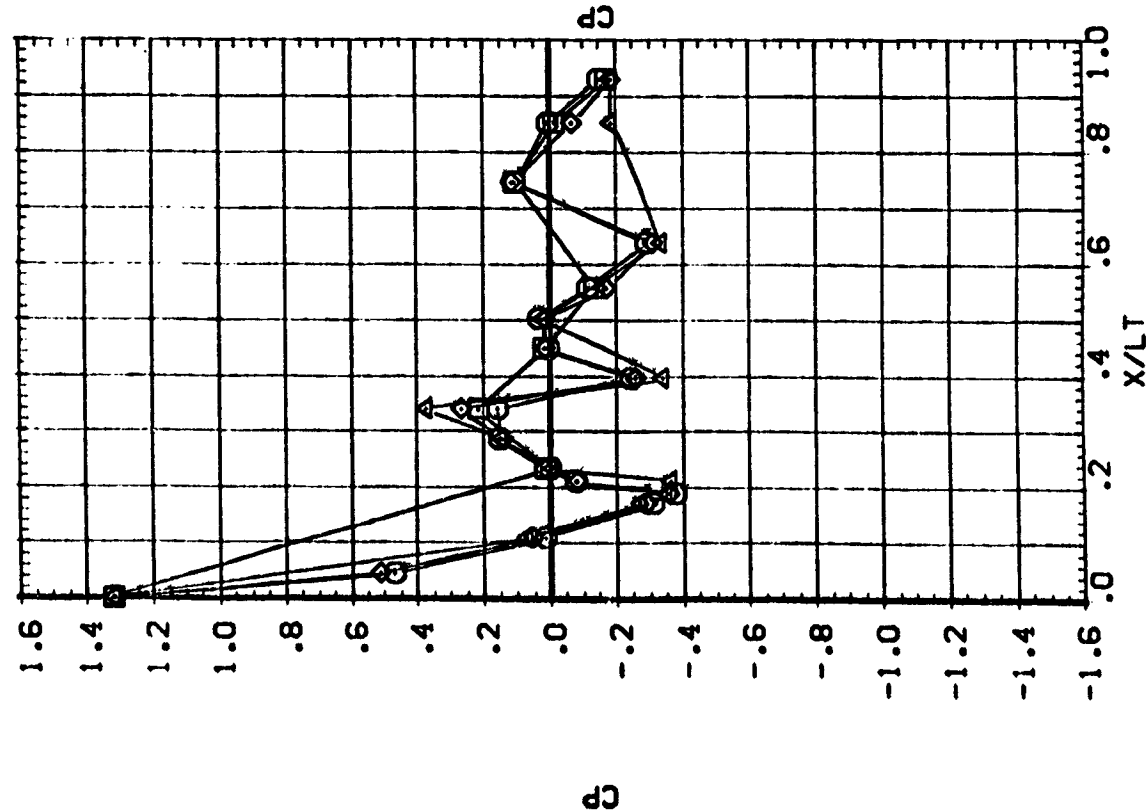
PHI 120.000
 135.000
 150.000
 165.000

BETAT 4.140
 8.250

MACH 1.100

PARAMETRIC VALUES
 ALPHAT .000
 RUDDER .000
 RUDFLR .000

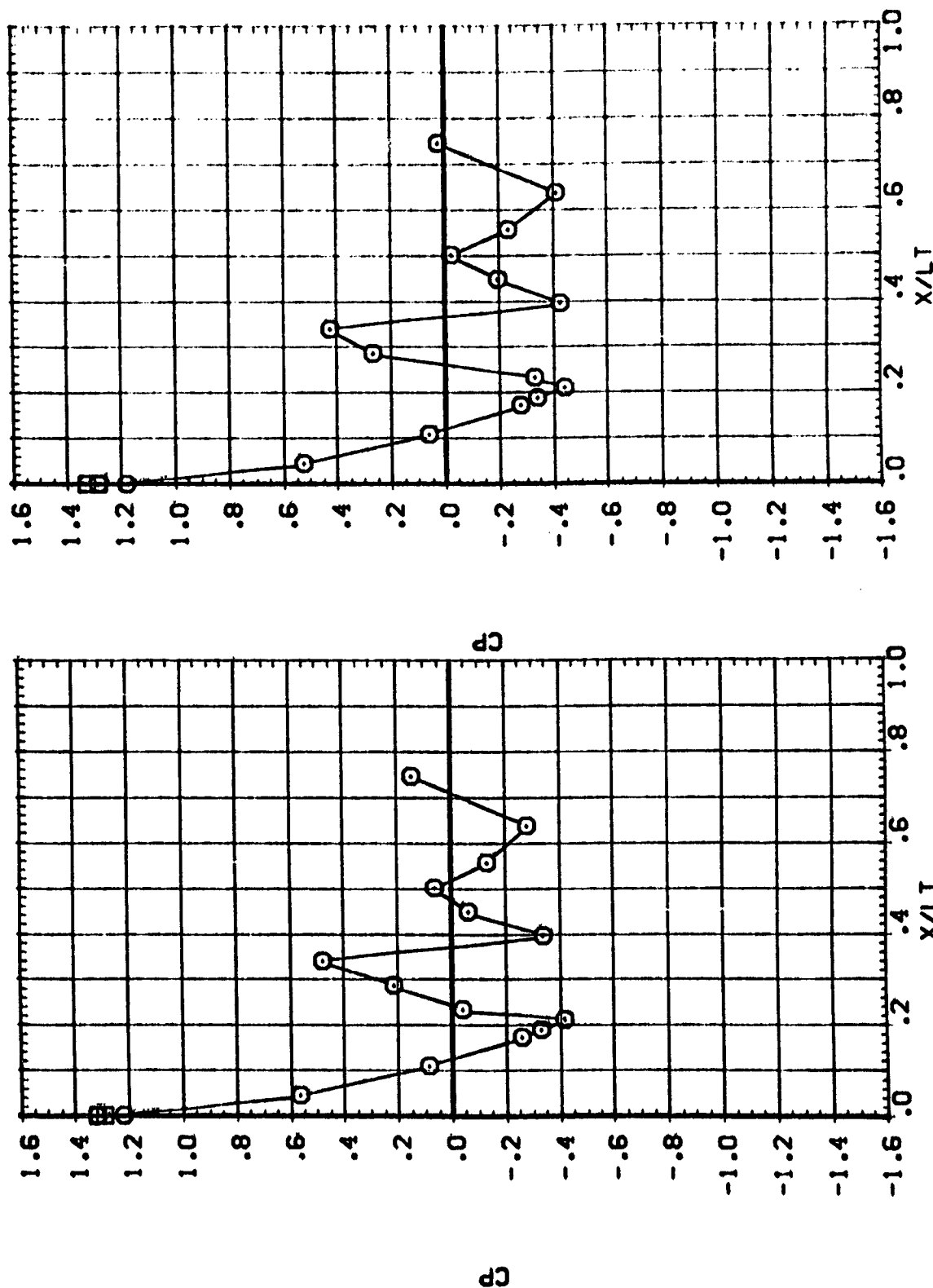
.500
 .000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 11-707 1A9 02A + S3 + T9 EXTERNAL TANK (RBMT07)

SYMBOL	PHI	BETAT	MACH	PARAMETRIC VALUES			
□	180.000	4.140	1.100	ALPHA-T	.000	ORBITING	.500
□	270.000	8.250		RUDDER	.000	ELEVON	.000
				RUDFLR	.000		



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES



AMES 11-707 1A9 02A + S3 + T9 EXTERNAL TANK (RBMT07)

SYMBOL
 ○ □ ◇ △

PHI
 .000
 30.000
 60.000
 90.000

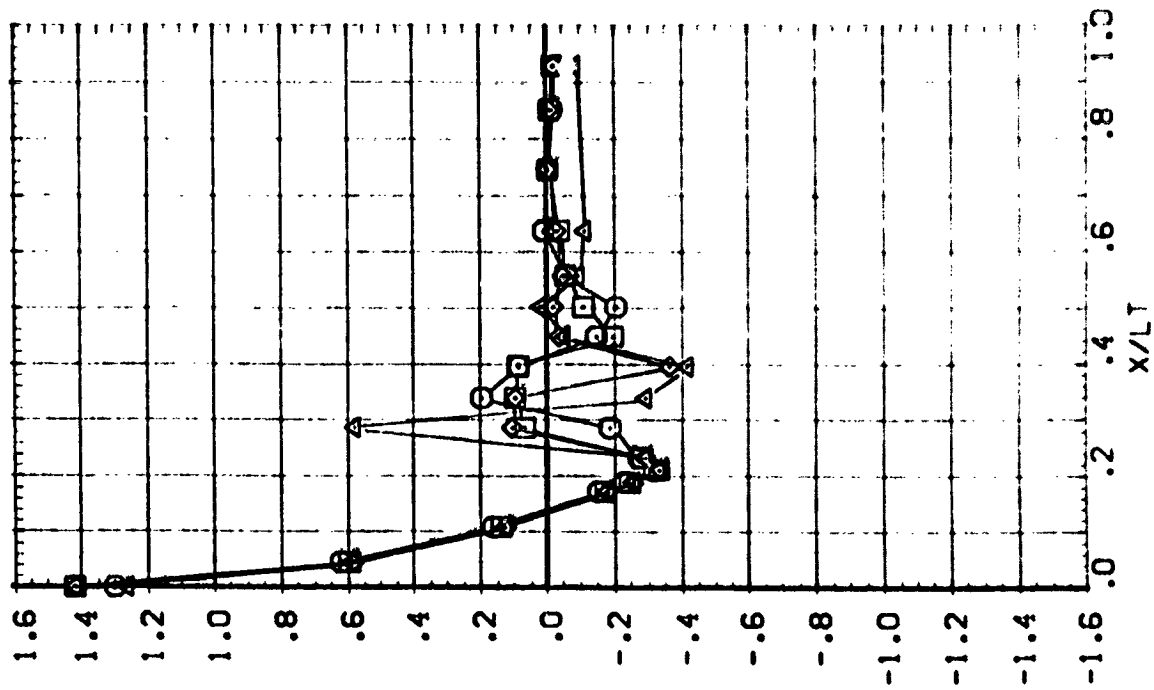
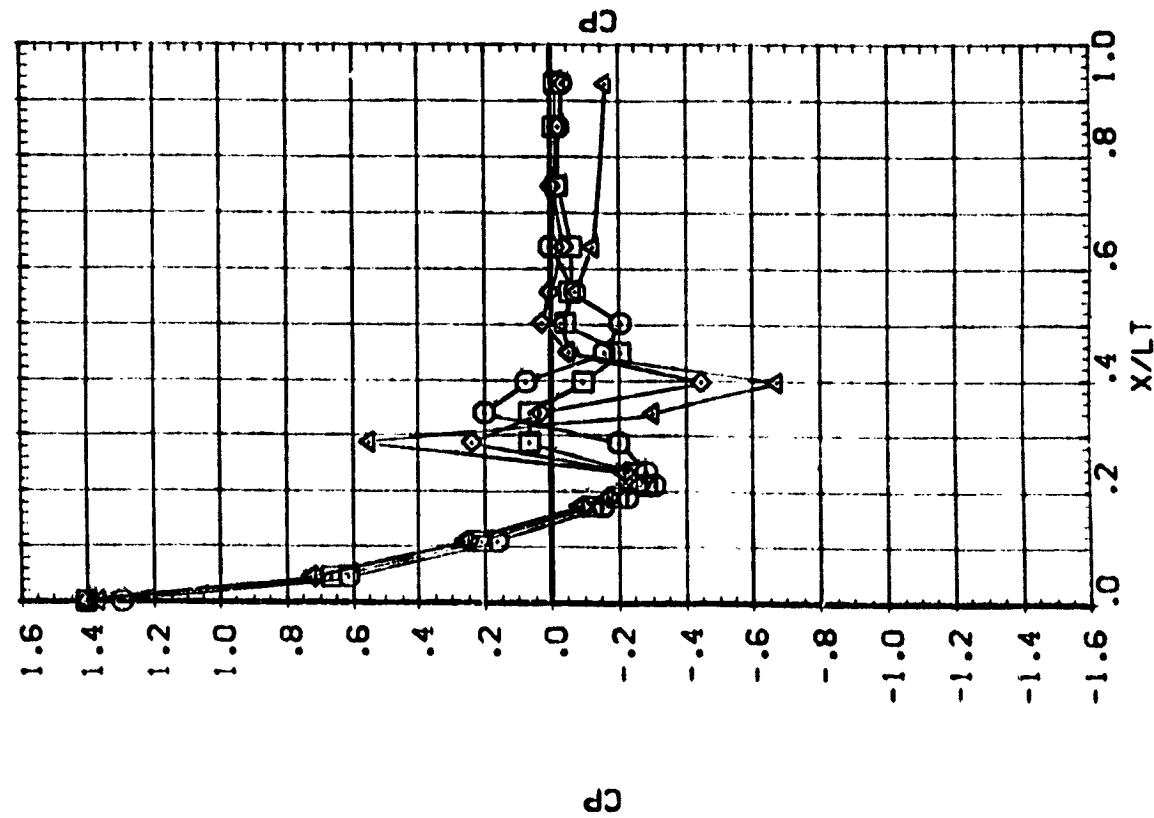
BETAT
 -4.080
 2.050

MAC-
 1.248

PARAMETRIC VALUES
 ALPHAT
 RUDDER
 RUOFLR

.000
 .000
 .000

.000
 .000
 .000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 11-707 :A9 C2A + S3 + T9 EXTERNAL TANK (RBMT07)

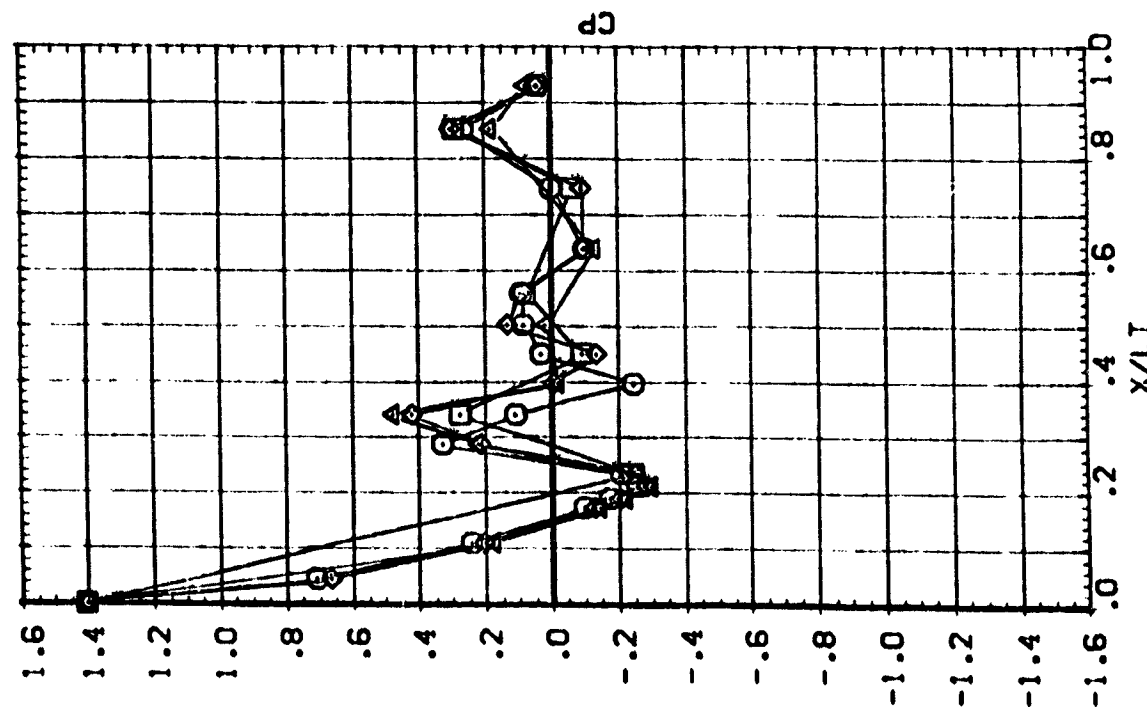
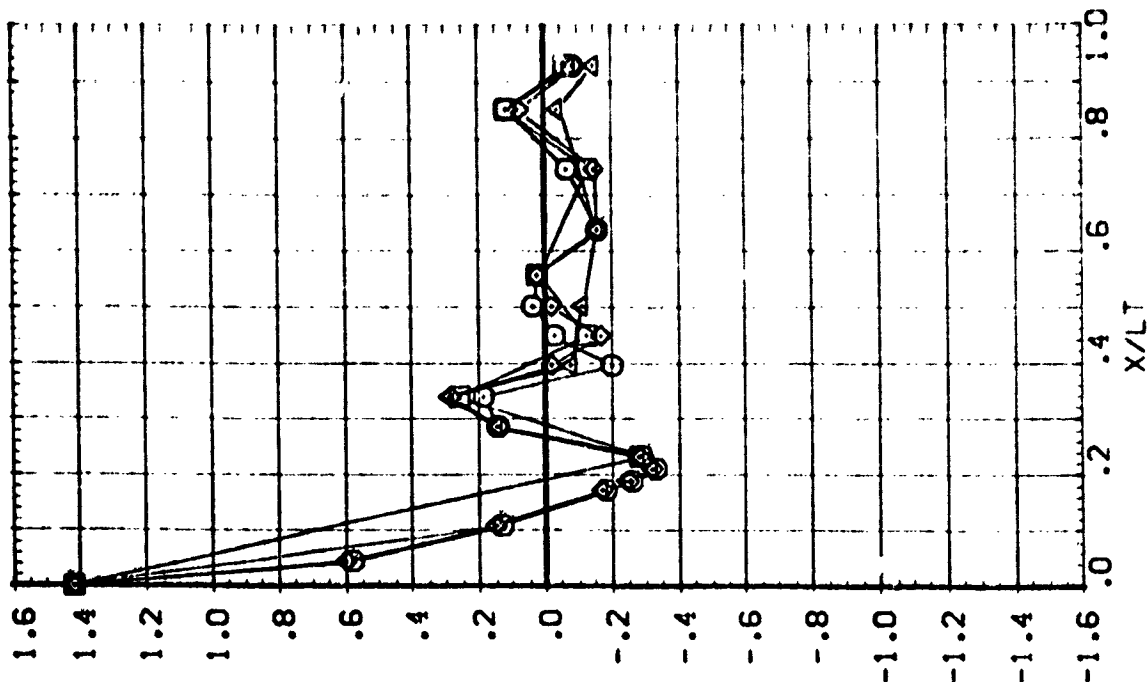
PARAMETRIC VALUES
 .500
 .000
 .000
 .000
 .000
 .000

ALPHA
 RUDER
 RUDER

PHI
 120.000
 135.000
 150.000
 165.000

BETAT
 -4.000
 2.000

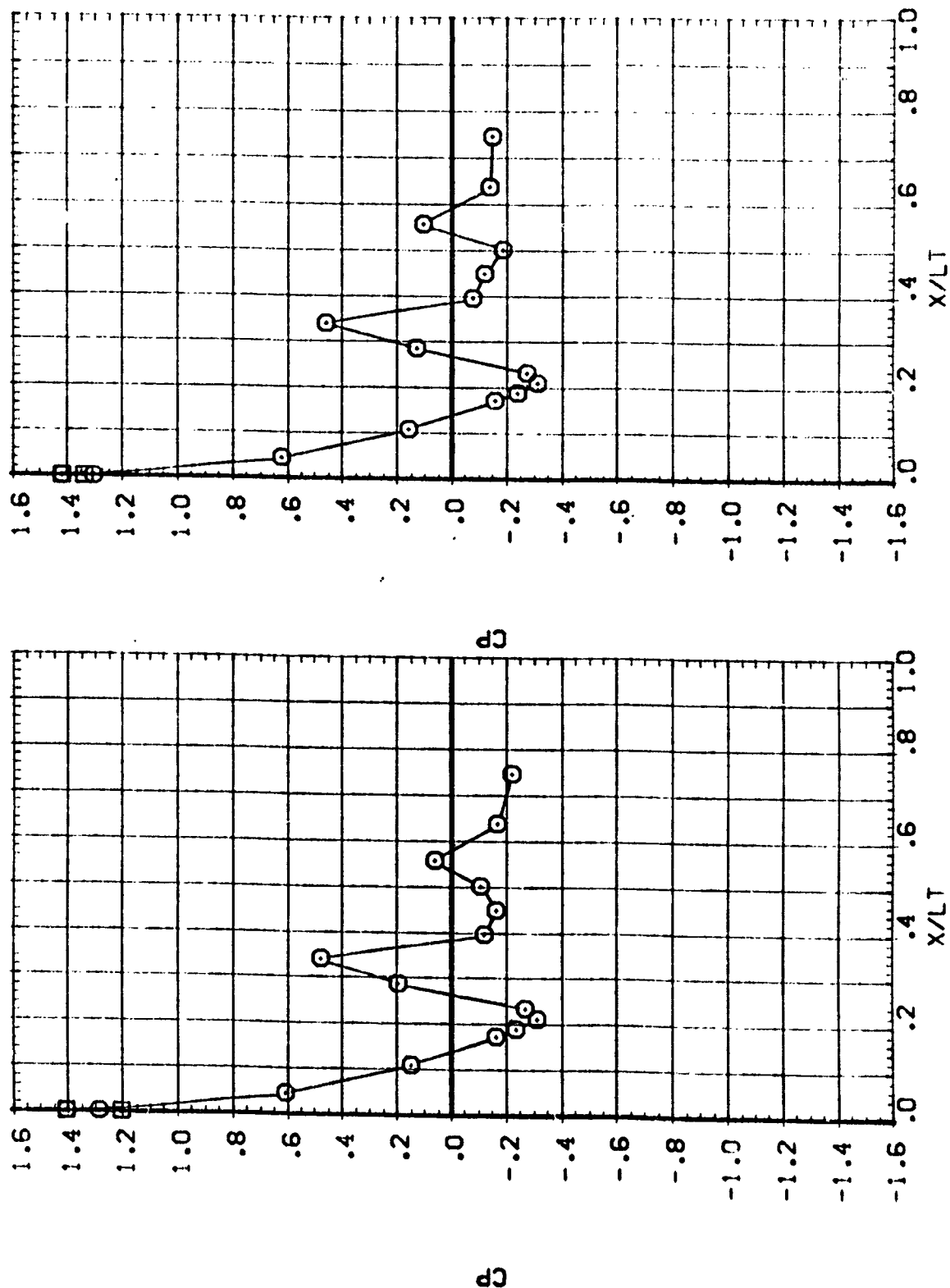
MACH
 1.248



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 11-707 1A9 02A + S3 + T9 EXTERNAL TANK (RBMT07)

SYMS	180.000	BETAT	-4.080	MACH	1.248	PARAMETRIC VALUES
0	270.000		2.06C			ALPHAT .000 DRBINC .500
						RJODER .000 ELEVON .000
						RJOFIR .000

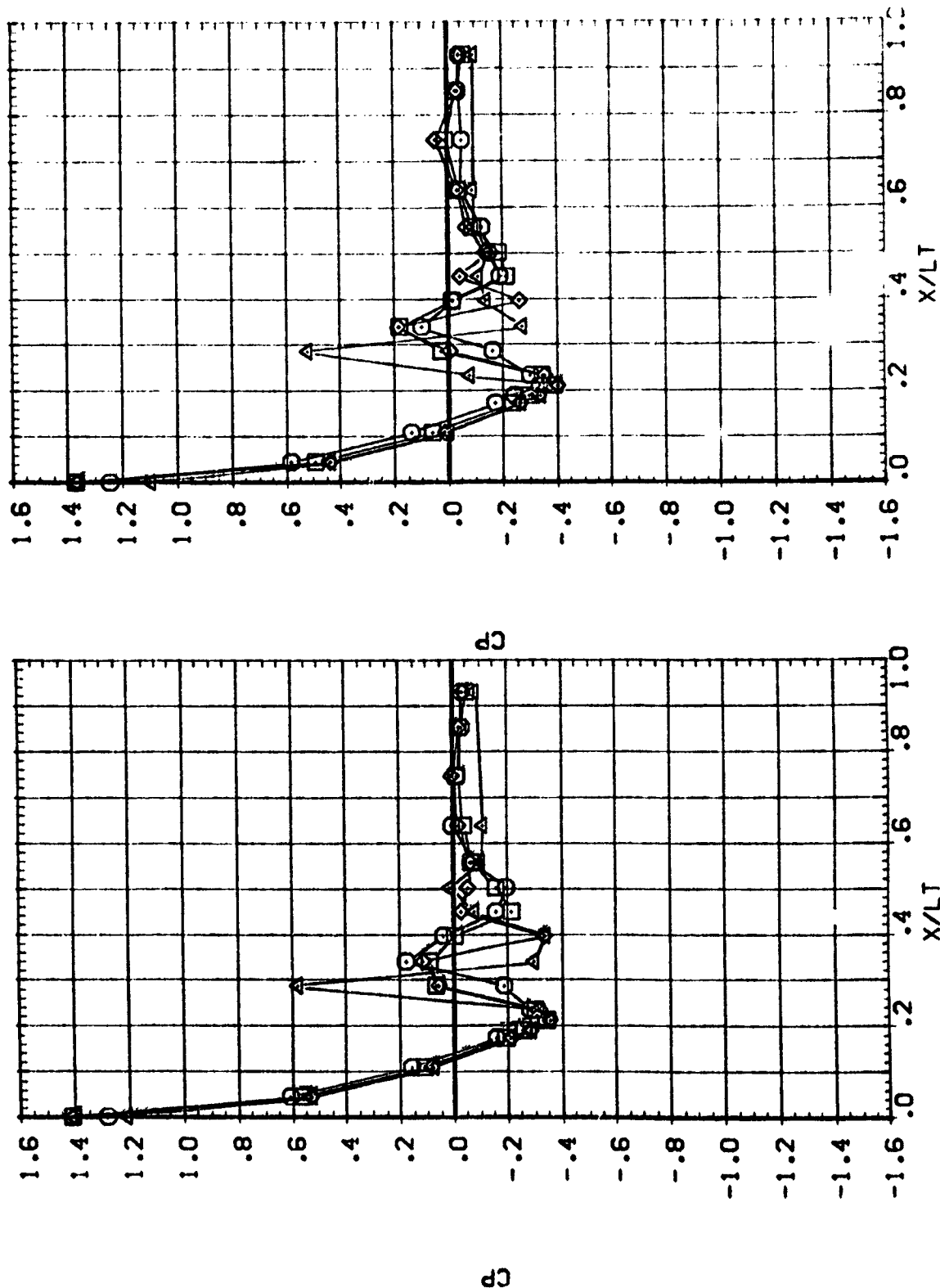


LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 11-707 1A9 02A + S3 + T9 EXTERNAL TANK (RBMT07)

PARAMETRIC VALUES
 ALPHAT .000 ORBINC .500
 RUDDER .000 ELEVON .000
 RUDDFLR .000

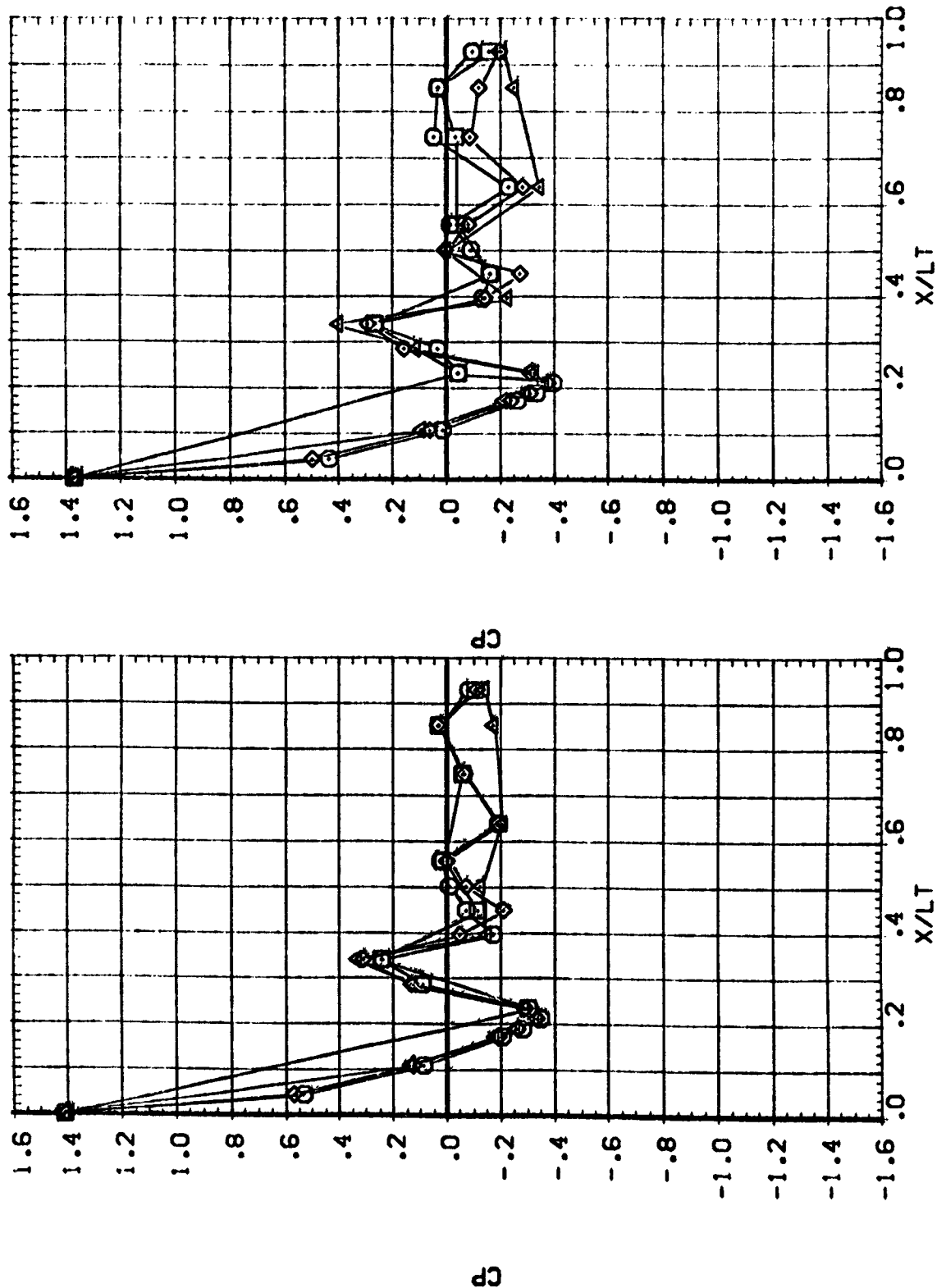
PHI .000 MACH 1.245
 30.000
 60.000
 90.000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 11-707 1A9 02A + S3 + T9 EXTERNAL TANK (RBMT07)

SYMBOL	PHI	BETAT	MACH	PARAMETRIC VALUES
○	120.000	4.100	1.245	ALPHAT .000 ORBINC .500
□	135.000	8.190		RUDDER .000 ELEVON .000
◇	150.000			RJDFLR .000
△	165.000			

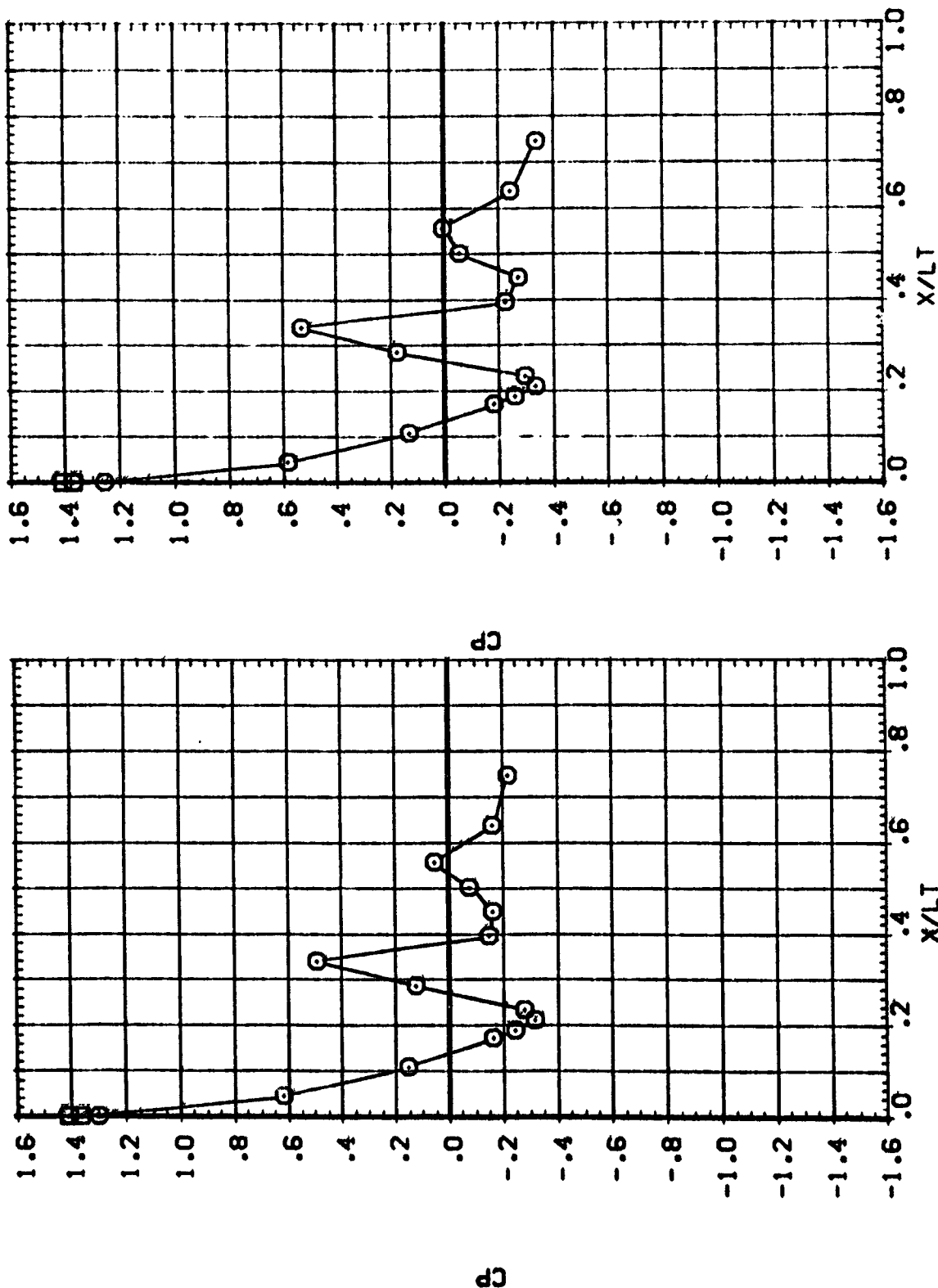


LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 11-707 1A9 02A + S3 + T9 EXTERNAL TANK (RBMT07)

SYMBOL: ☒ 180.000 ☐ 270.000
 BETAT: 4.100 8.190
 MACH: 1.245

PARAMETRIC VALUES
 ALPHAT: .000
 RUDDER: .000
 RUDDL: .000
 CRBINC: .500
 ELEVON: .000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES



AMES 11-707 1A9 02A + S3 + T9 EXTERNAL TANK (RBMT07)

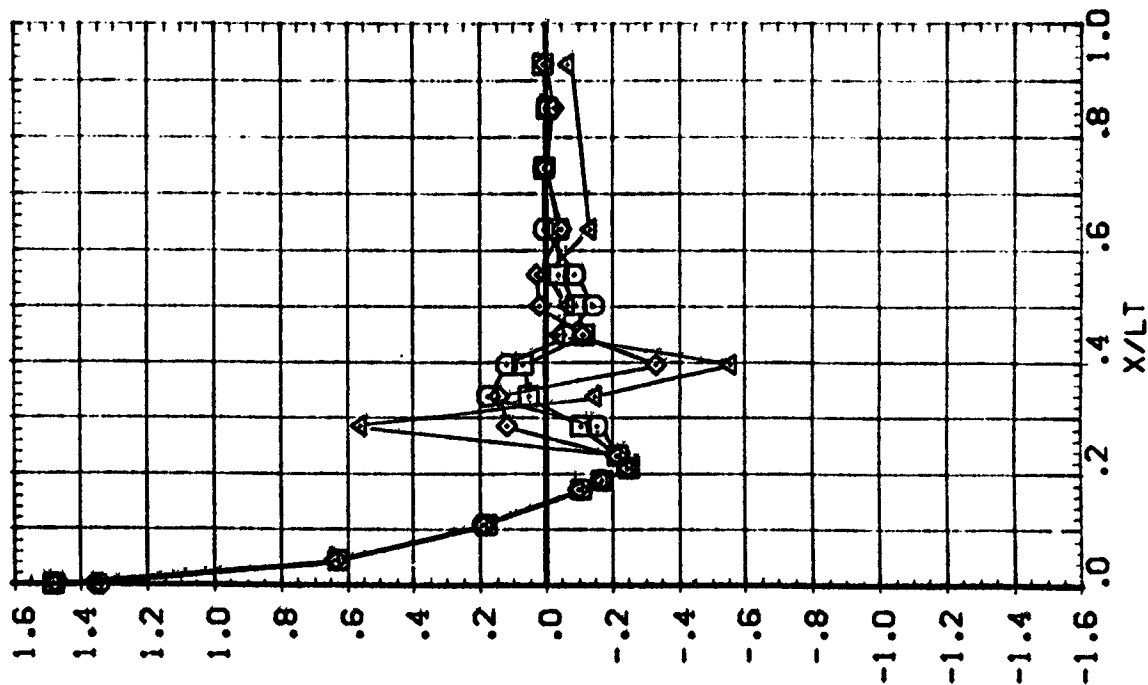
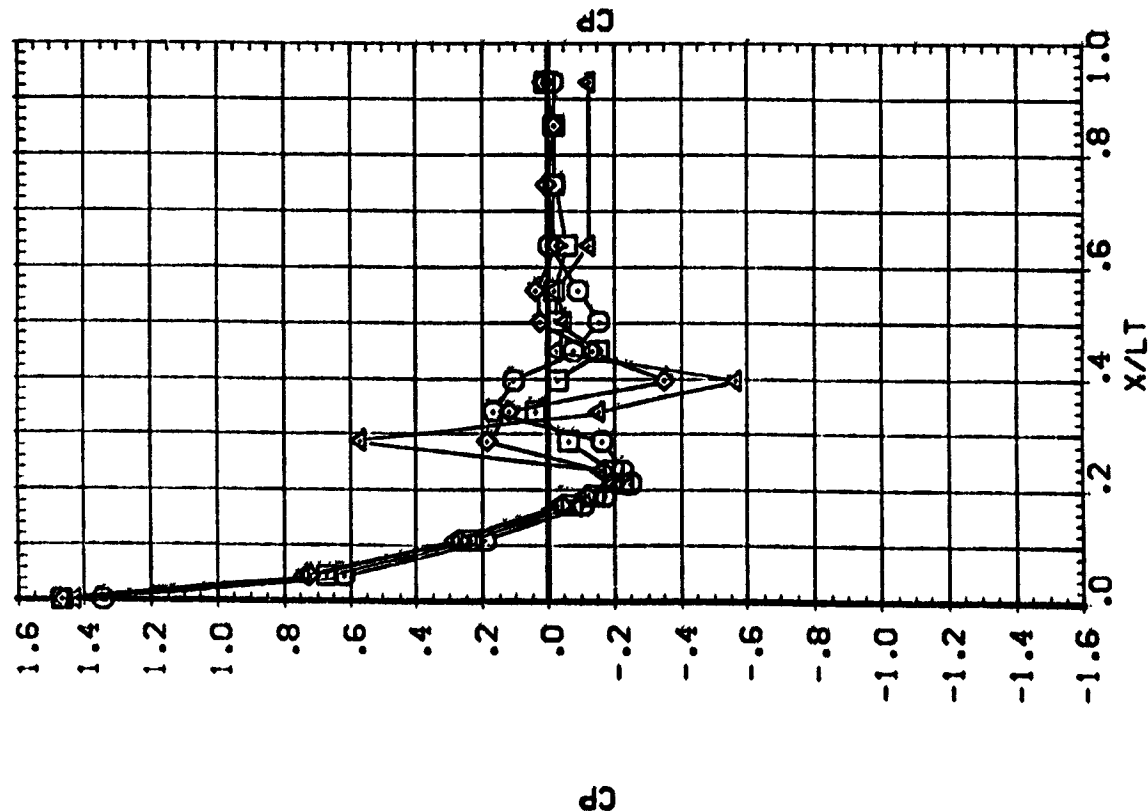
SYMBOL
○ □ ◇ △

PHI .000
30.000
60.000
90.000

BETAT -4.080
.020

MACH 1.357

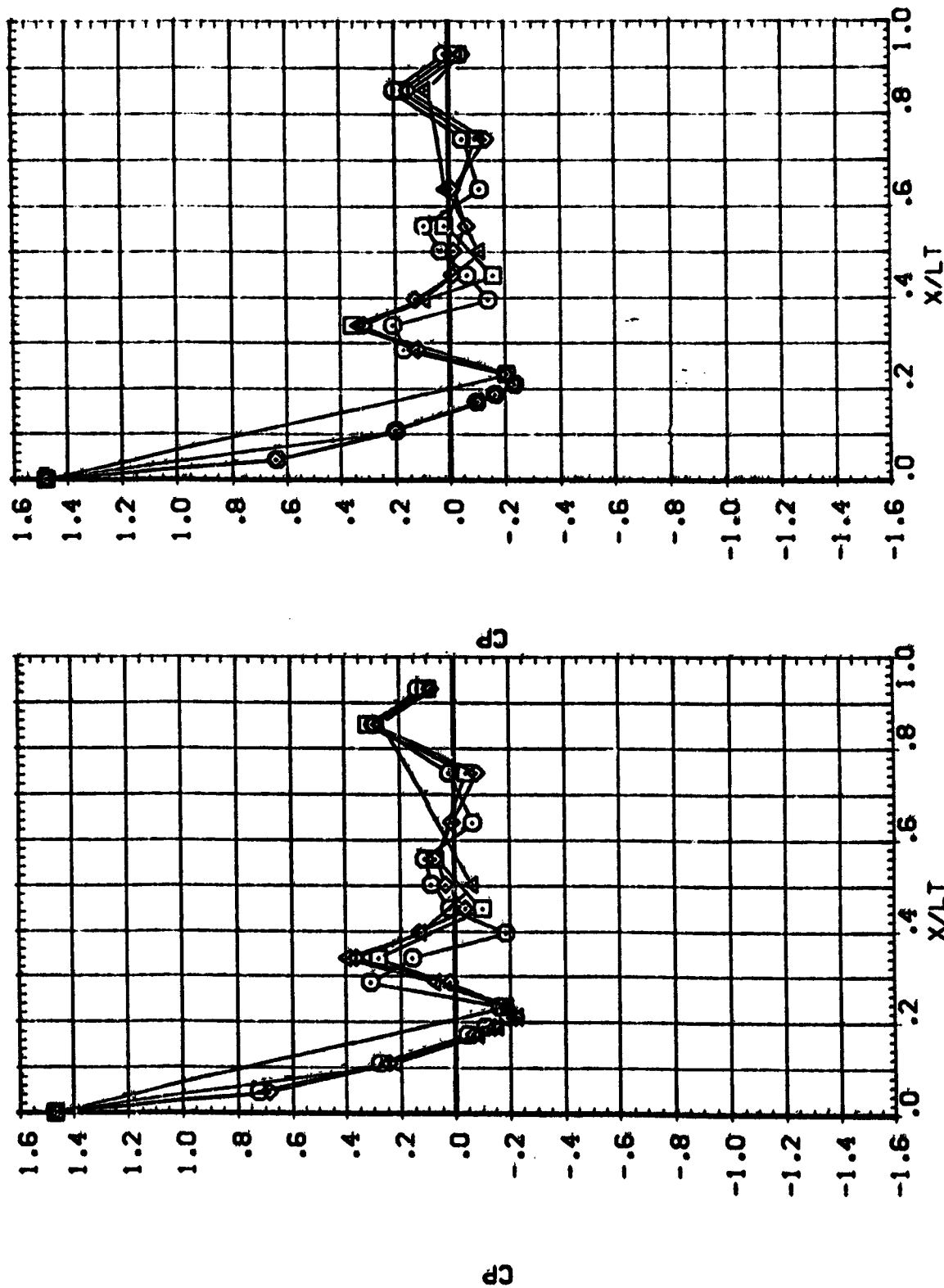
PARAMETRIC VALUES
ALPHAT .000 DRBTNC .500
RUDDER .000 ELEVON .000
RUOFLR .000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 11-707 1A9 02A + S3 + T9 EXTERNAL TANK (RBMT07)

SYMBOL	PMI	BETAT	MACH	PARAMETRIC VALUES
○	120.000	-4.080	1.387	ALPHAT .000 ORBIN .500
□	135.000	.020		RLODR .000 ELEVON .000
◇	150.000			RJOFIR .000
△	165.000			



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES



AMES 11-707 1A9 02A + S3 + T9 EXTERNAL TANK (RBMT07)

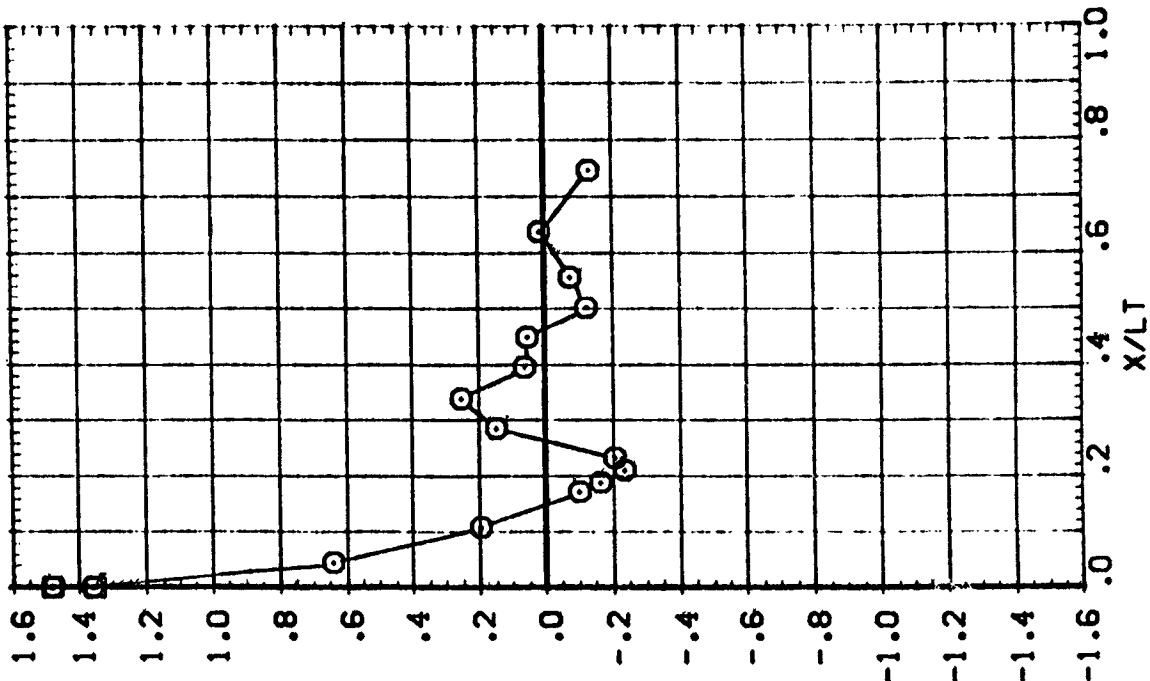
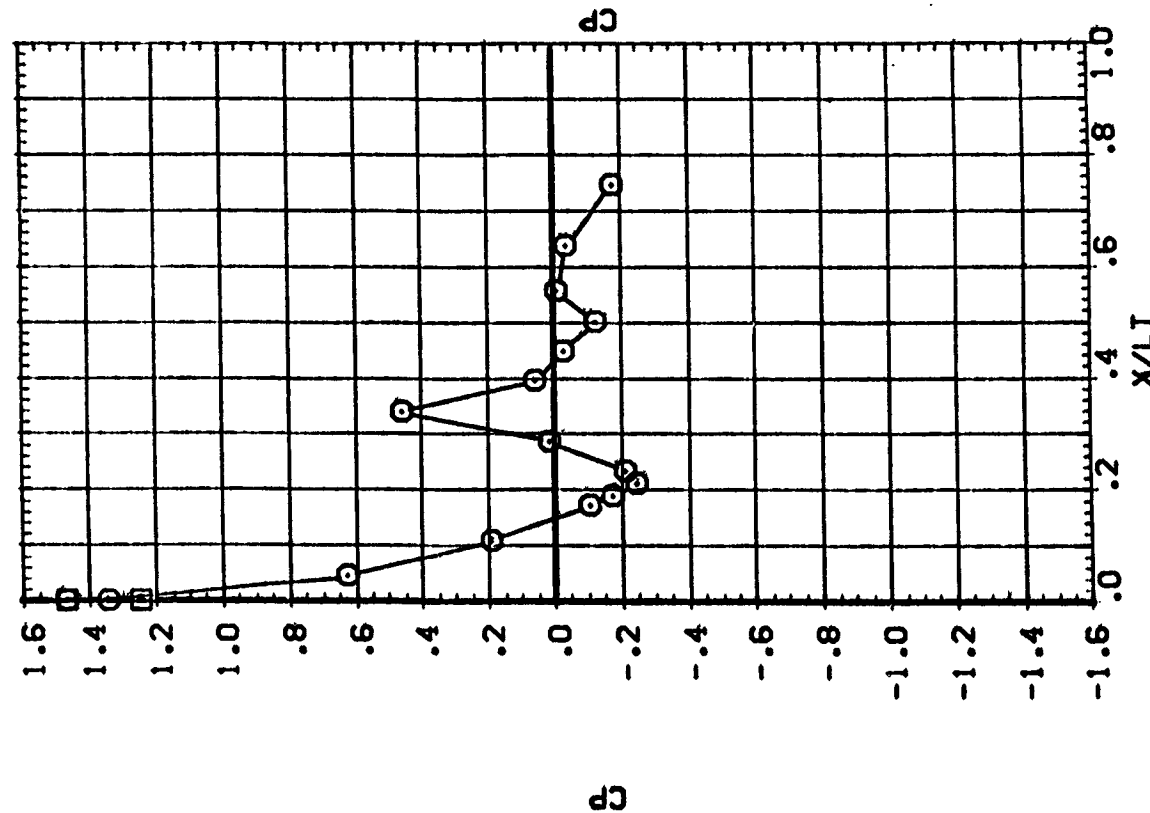
SYMBOL
○ □

PHI
180.000
270.000

SETAT
-4.080
.020

MACH
1.397

PARAMETRIC VALUES
ALPHAT .000 ORBITNC .500
RUDDER .000 ELEVON .000
RUOFLR .000



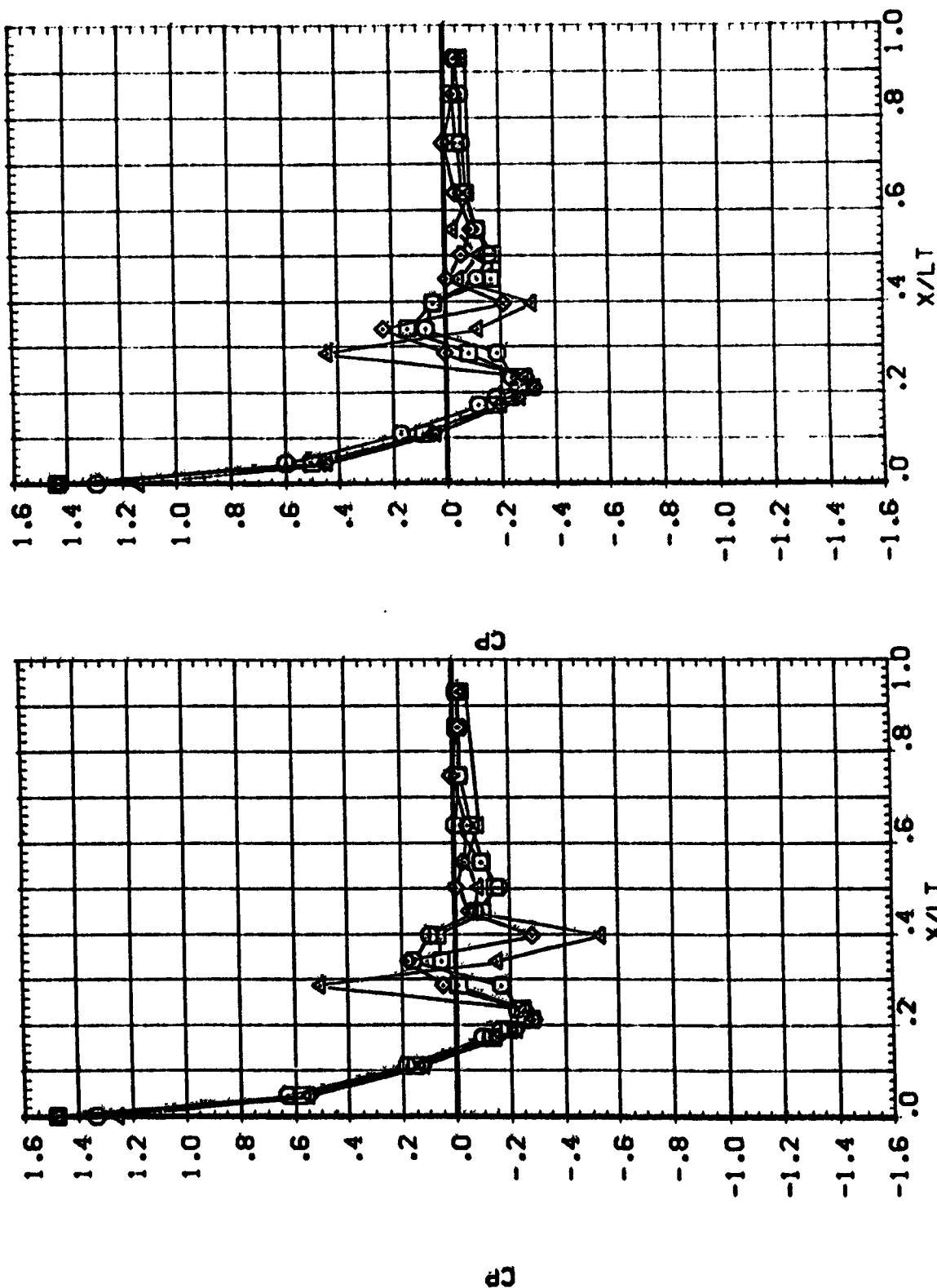
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 11-707 1A9 Q2A + S3 + T9 EXTERNAL TANK (RBMT07)

SYMBL
 ○ □ ◇ △

PHI .000 4.110
 30.000 8.210
 60.000
 90.000

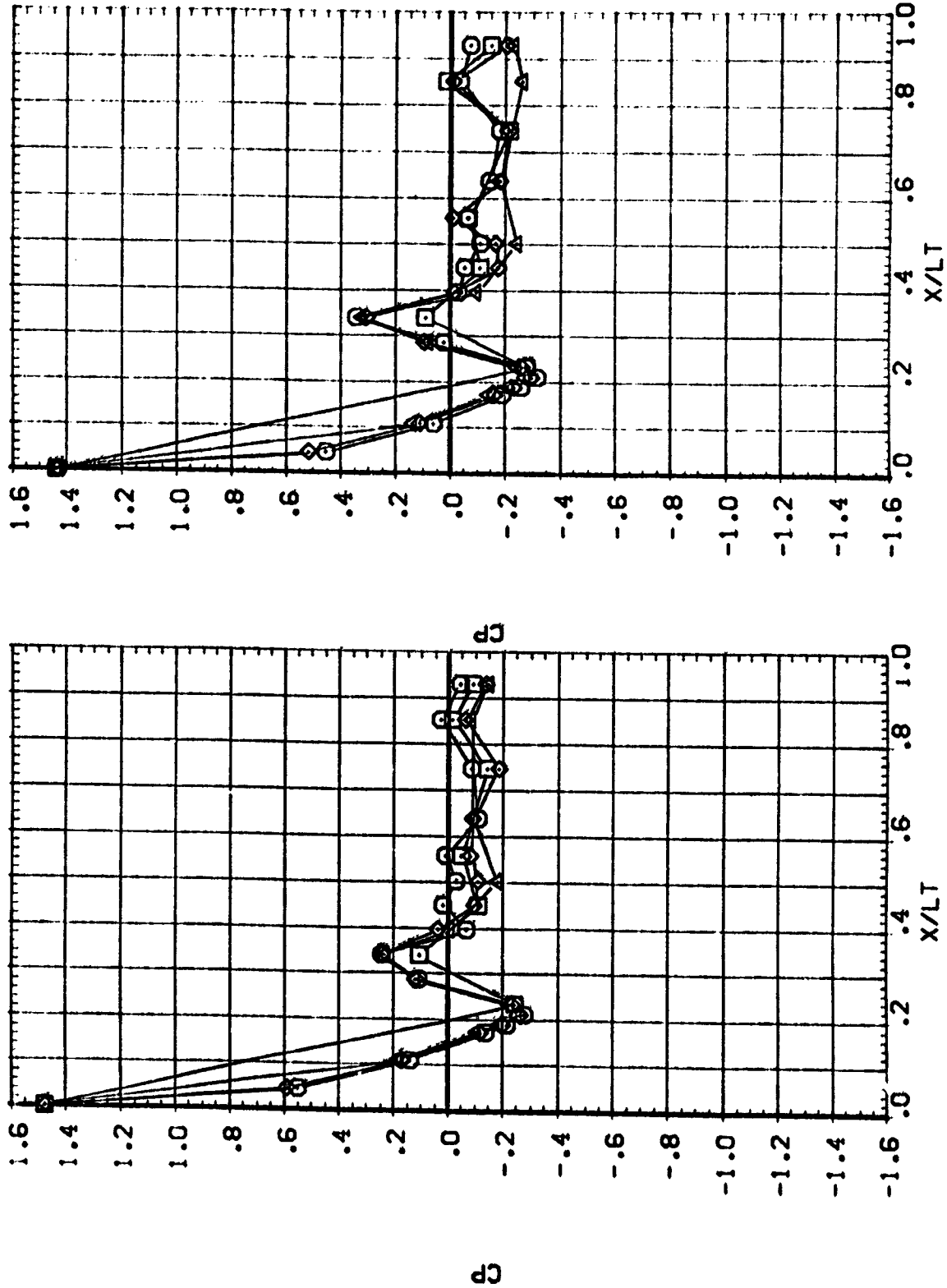
PARAMETRIC VALUES
 .000 .000 .500
 .000 .000 .000
 .000 .000 .000
 ALPHAT RUDDER ELEVON
 RUOFLR



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 11-707 IAS 02A + S3 + T9 EXTERNAL TANK (RBMT07)

SYMBOL	PHI	BETAT	MACH	PARAMETRIC VALUES			
				ALPHAT	RJODER	RJOFLR	ORBINC ELEVON
○	120.000	4.110	1.394	.000	.000	.000	.500
□	135.000	8.210		.000	.000	.000	.000
◇	150.000						
△	165.000						

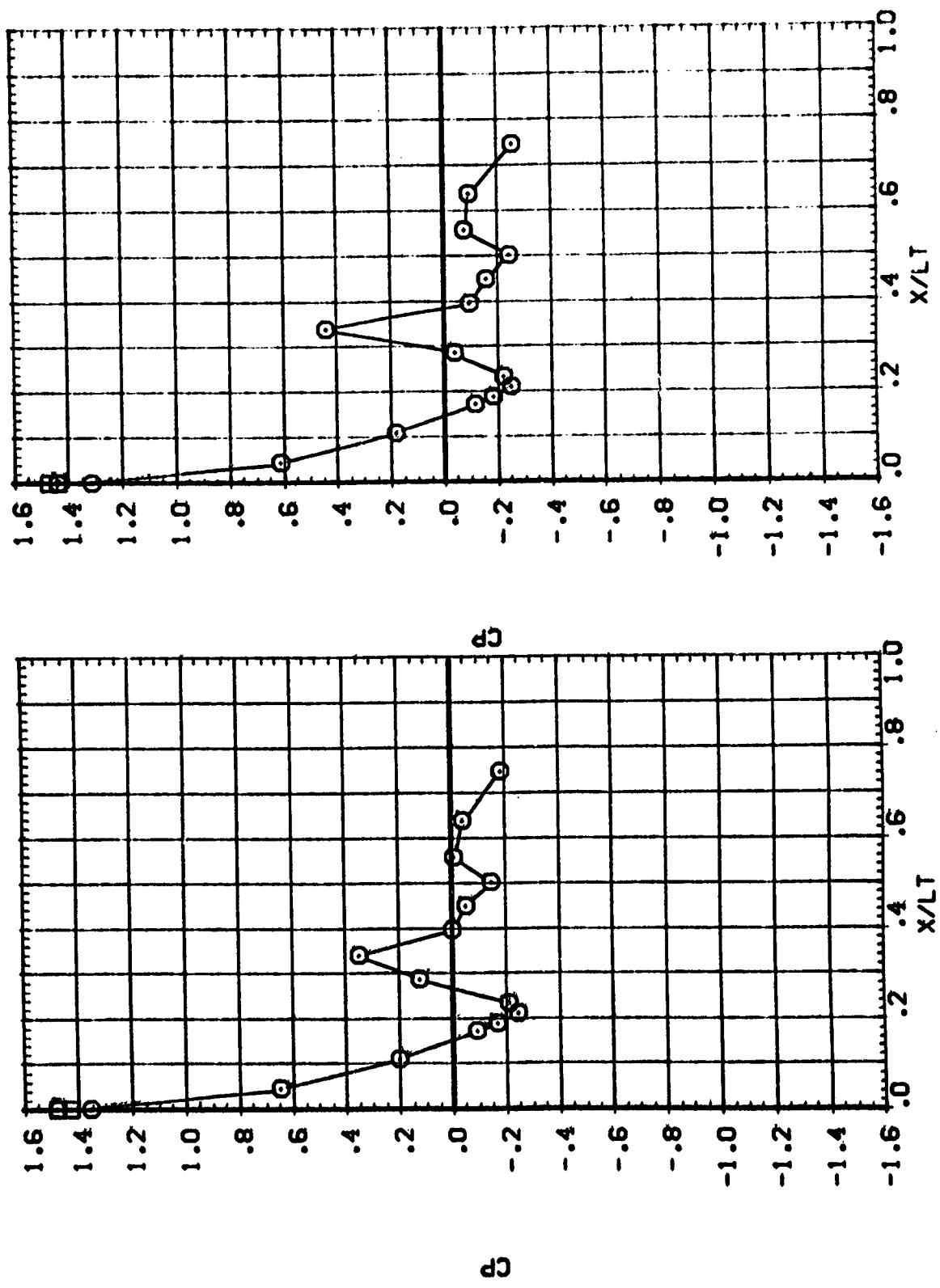


LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES



AMES 11-707 IAS 02A + S3 + T9 EXTERNAL TANK (RBMT07)

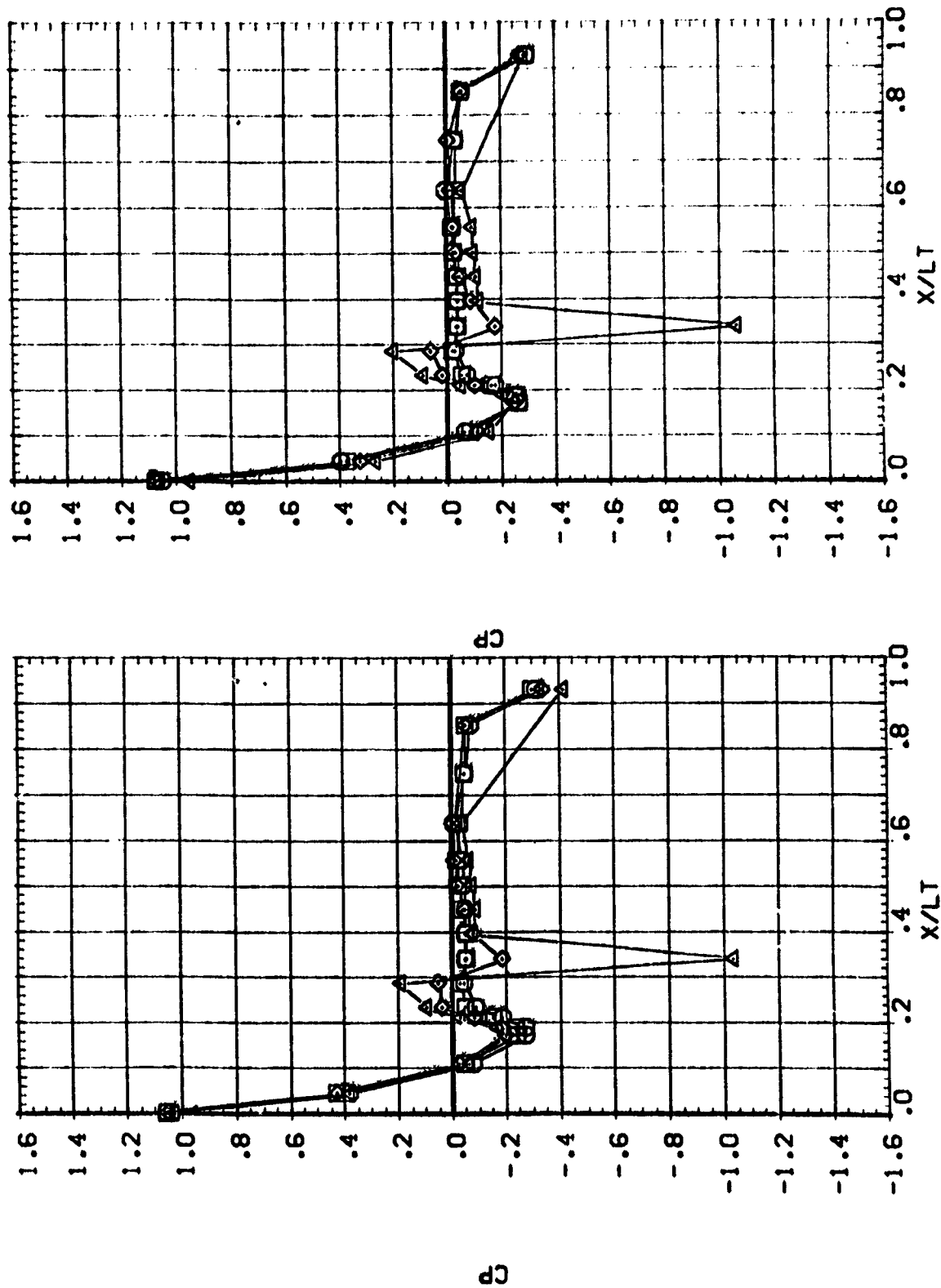
SYMBOL	PHI	BETAT	MACH	PARAMETRIC VALUES			
□	180.000	4.110	1.394	ALPHAT	.000	ORBNIC	.500
□	270.000	8.210		RJODER	.000	ELEVON	.000
				RJDFLR	.000		



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AVES 11-707 1A9 02A + S3 + T9 EXTERNAL TANK (RBMT09)

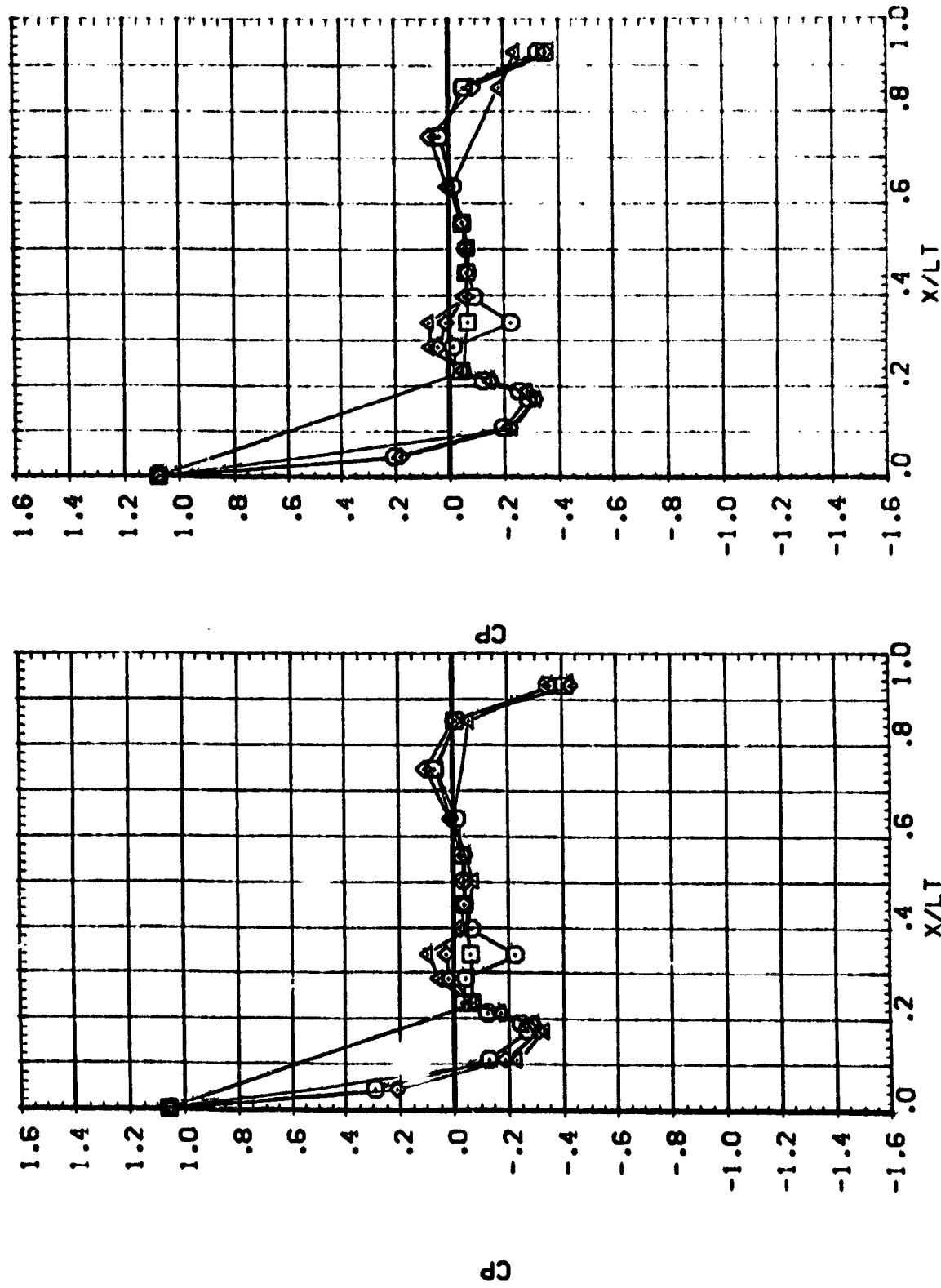
SYMBOL	PHI	BETAT	MACH	PARAMETRIC VALUES
□	.000	-4.030	.598	ALPHA-T 4.000 CRBINC .500
○	30.000	.020		RJODER .000 ELEVEN .000
◇	60.000			RJDFLR .000
△	90.000			



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 11-707 1A9 02A + S3 + T9 EXTERNAL TANK (RBMT09)

SYMBOL	PHI	BETAT	MACH	ALPHAT	ORBIT	PARAMETRIC VALUES
○	120.000	-4.030	.598	RUDER	4.000	.500
□	135.000	.020		RJFLR	.000	.000
◇	150.000				.000	
△	165.000					



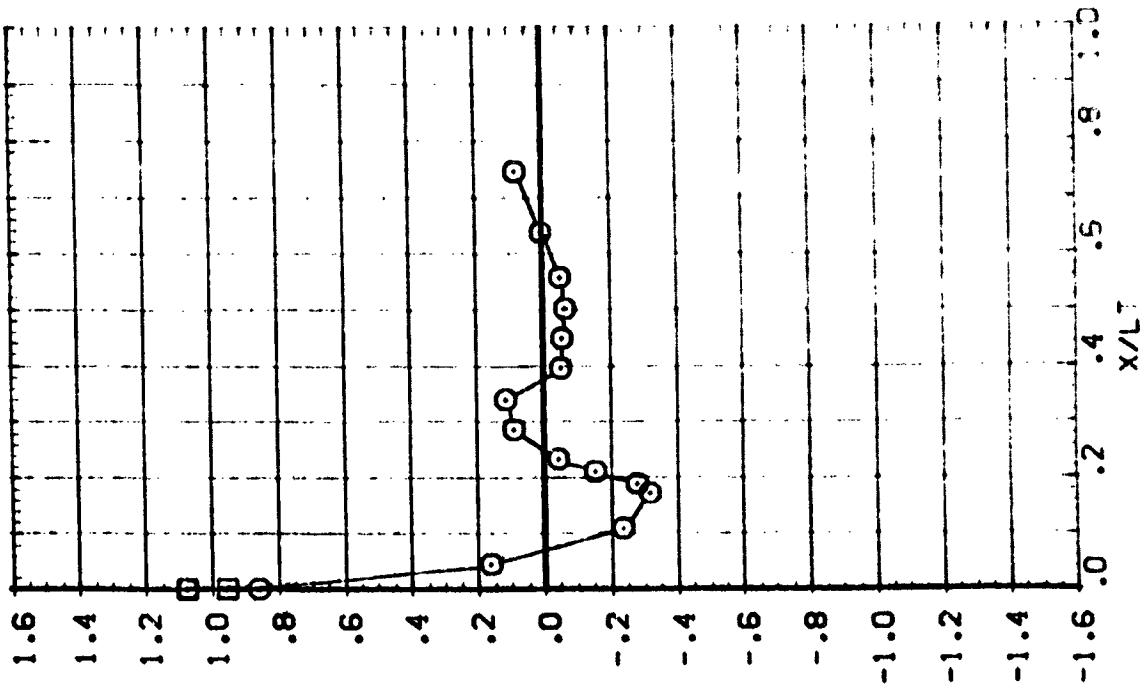
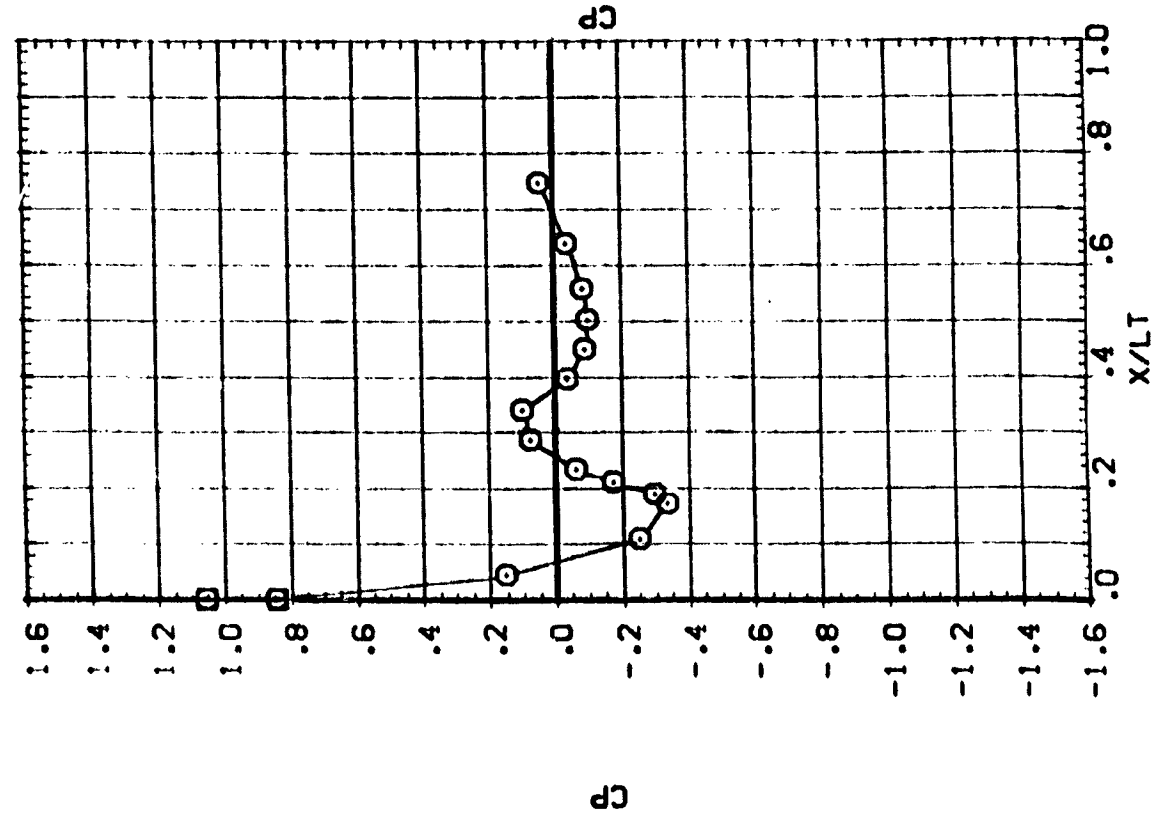
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES



AMES 11-707 A9 02A - S3 + T9 EXTERNAL TANK (RBMT09)

SYSC- PHI BETAT MACH
180.000 -4.030 .598
270.000 .020

PARAMETRIC VALUES
ALPHAT 4.000 ORBINC .500
RUDDER .000 ELEVON .000
RUDEL R .000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 11-707 1A9 02A + S3 + T9 EXTERNAL TANK

(RBMT09)

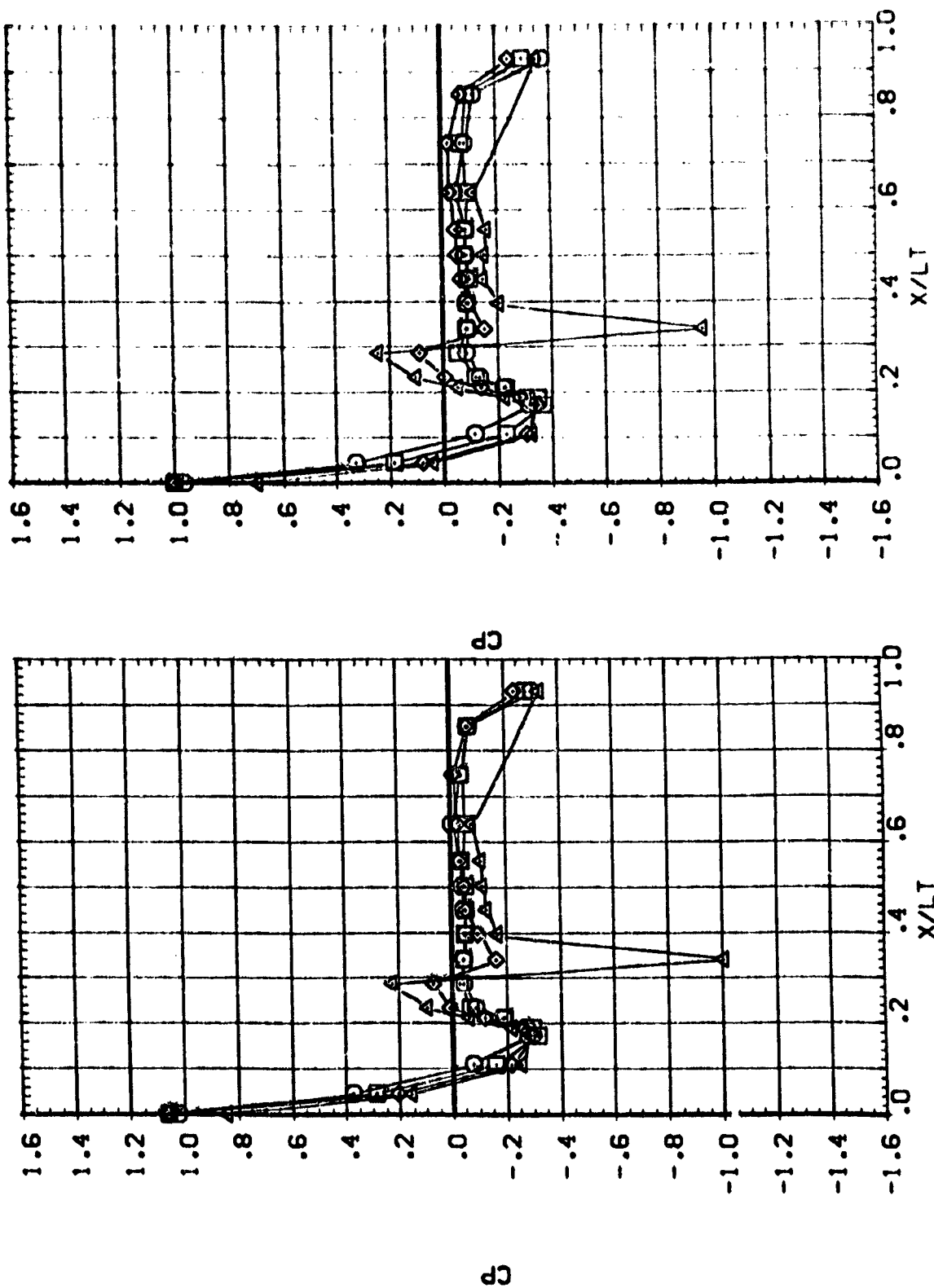
SYMBOL
 ○ □ ◇ △

PHI .000
 30.000
 60.000
 90.000

BETAT 4.080
 8.150

MACH .597

PARAMETRIC VALUES
 ALPHAT 4.000
 RPODER .000
 RDOFLR .000
 ORBINC .500
 ELEVEN .000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

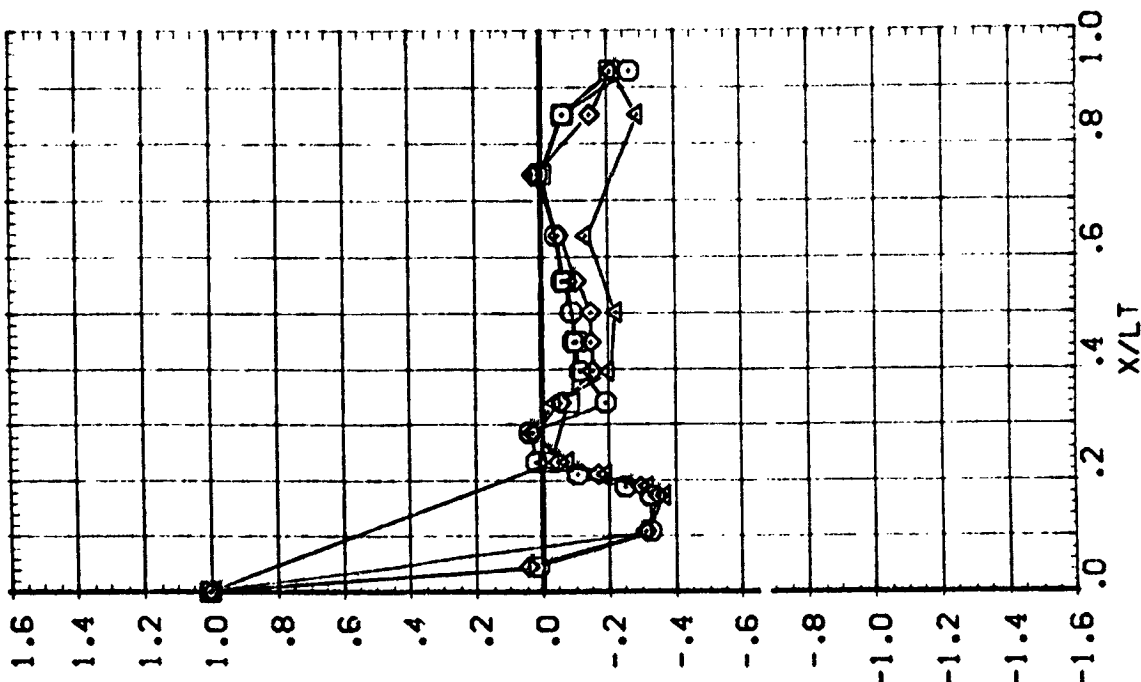
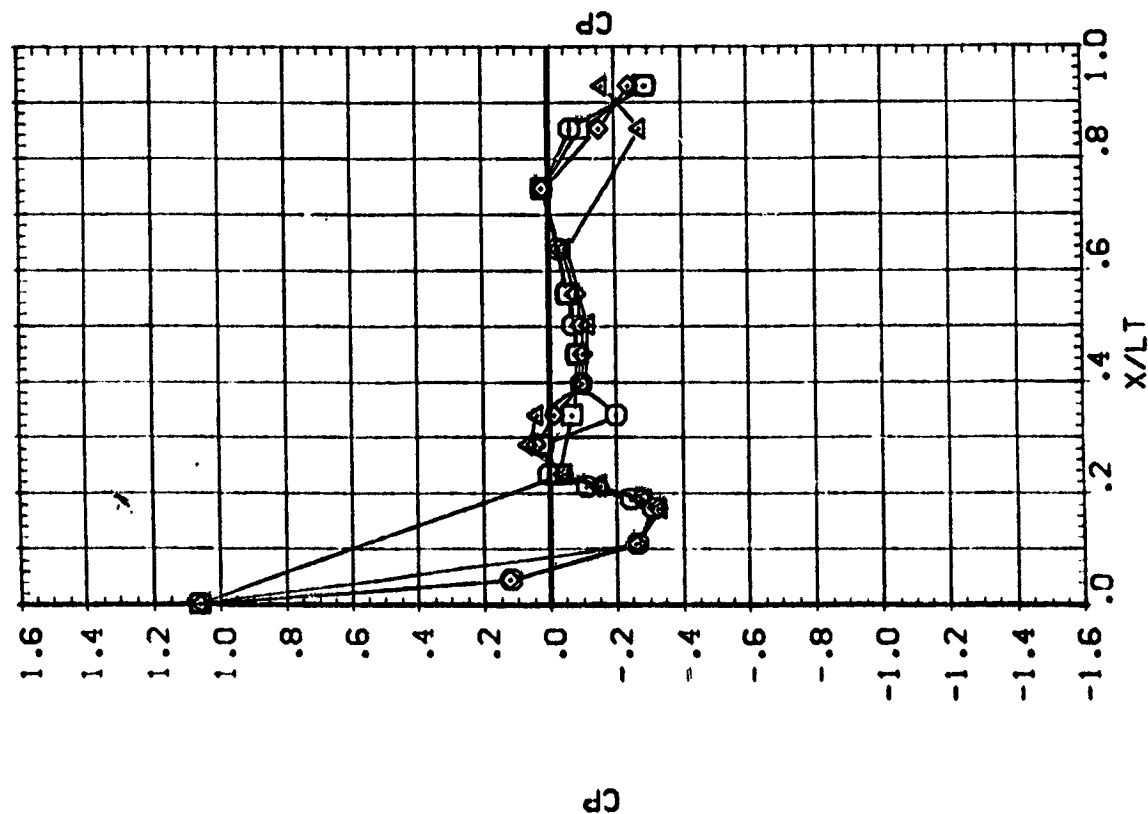
AMES 11-707 I A9 02A + S3 + T9 EXTERNAL TANK (RBM109)

SYMBOL
 ○ □ ◇ △

PHI
 120.000
 135.000
 150.000
 165.000

BETAT MACH
 4.080 .597
 8.15C

PARAMETRIC VALUES
 ALPHAAT 4.000 ORBINC .500
 RJOER .000 ELEVON .000
 RJOFLR .000

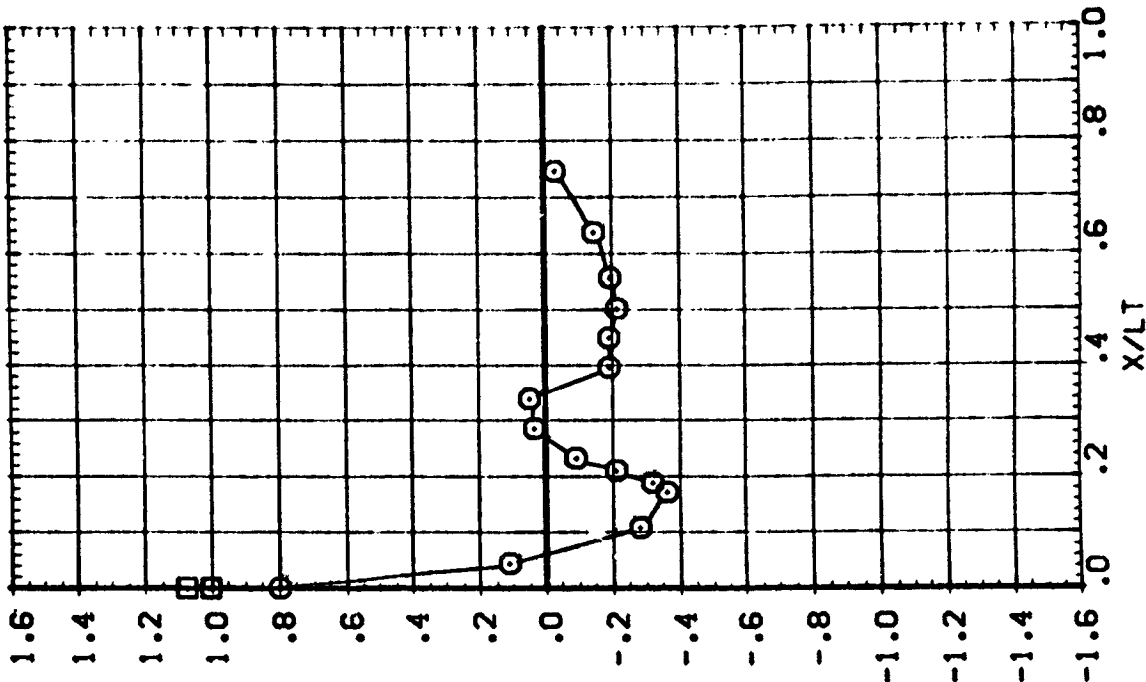
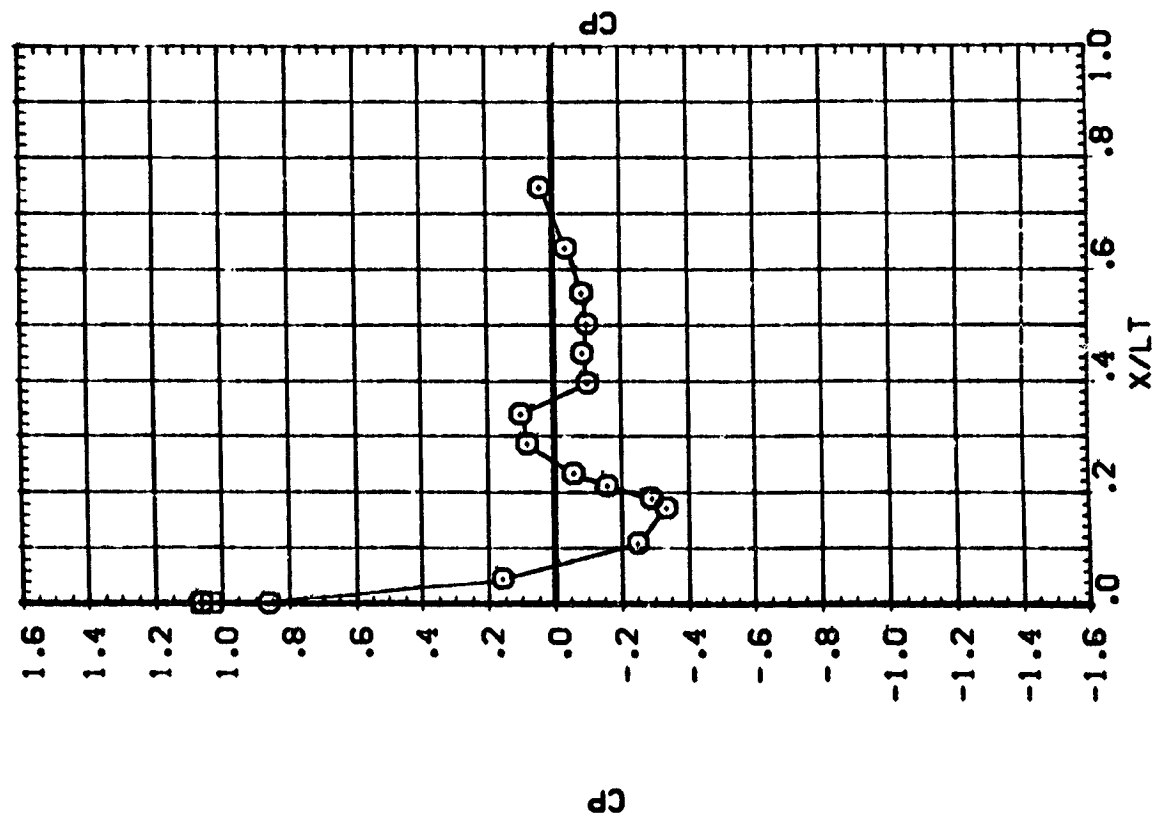


LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 11-707 1A9 02A + S3 + T9 EXTERNAL TANK (RBMT09)

SYMBOL PHI BETAT MACH
 180.000 4.080 .597
 270.000 8.150

PARAMETRIC VALUES
 ALPHAT 4.000 ORBINC .500
 RUDDER .000 ELEVON .000
 RUFLR .000

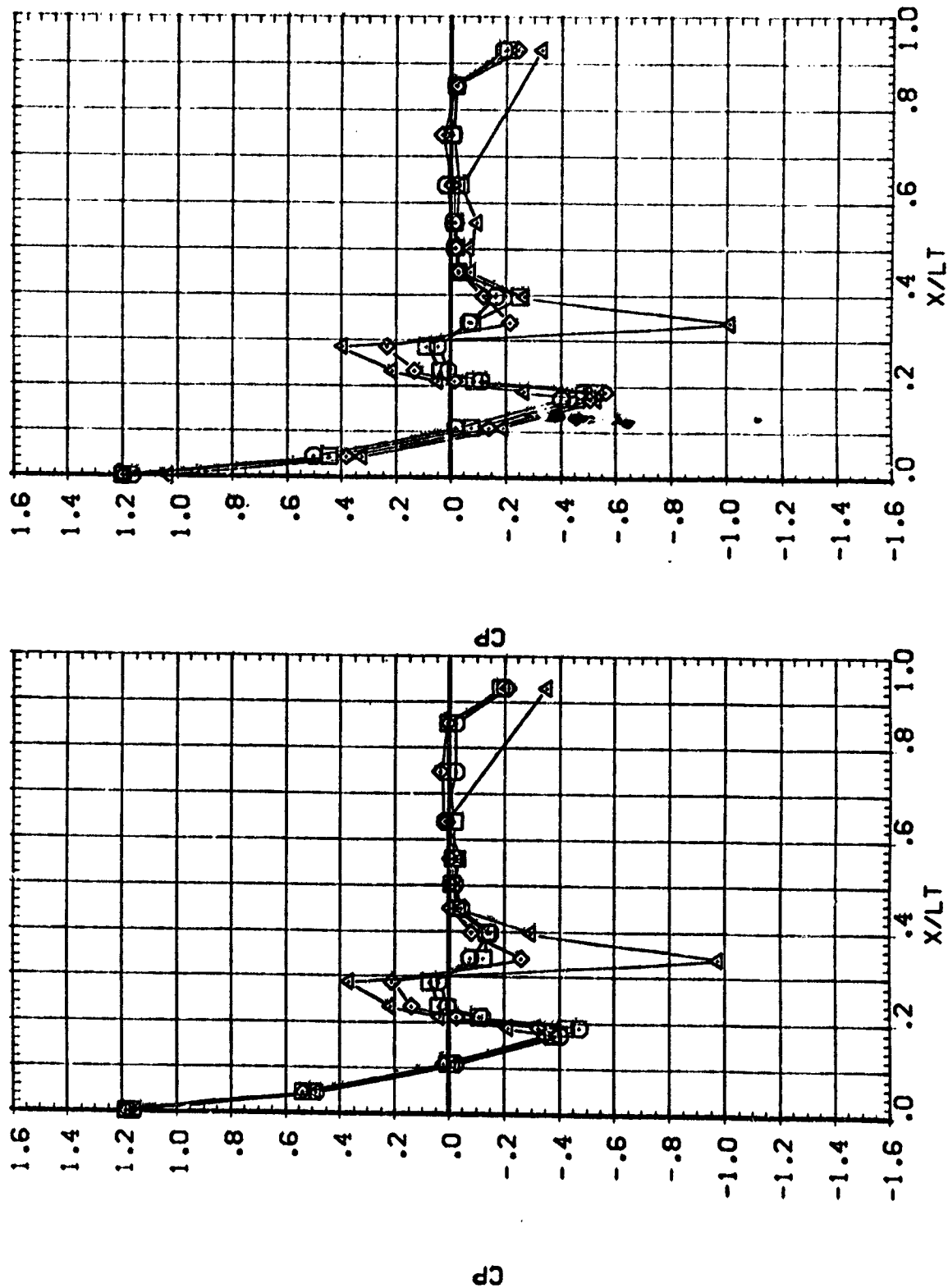


LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES



AMES 11-707 IA9 02A + S3 + T9 EXTERNAL TANK (RBMT09)

SYMBOL	PHI	BETAT	MACH	PARAMETRIC VALUES
○	.000	-4.080	.901	ALPHAT 4.000 DRBINC .500
◇	30.000	2.070		RUDGER .000 ELEVON .000
△	60.000			
	90.000			



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 11-707 1A9 02A + S3 + T9 EXTERNAL TANK (RBMT09)

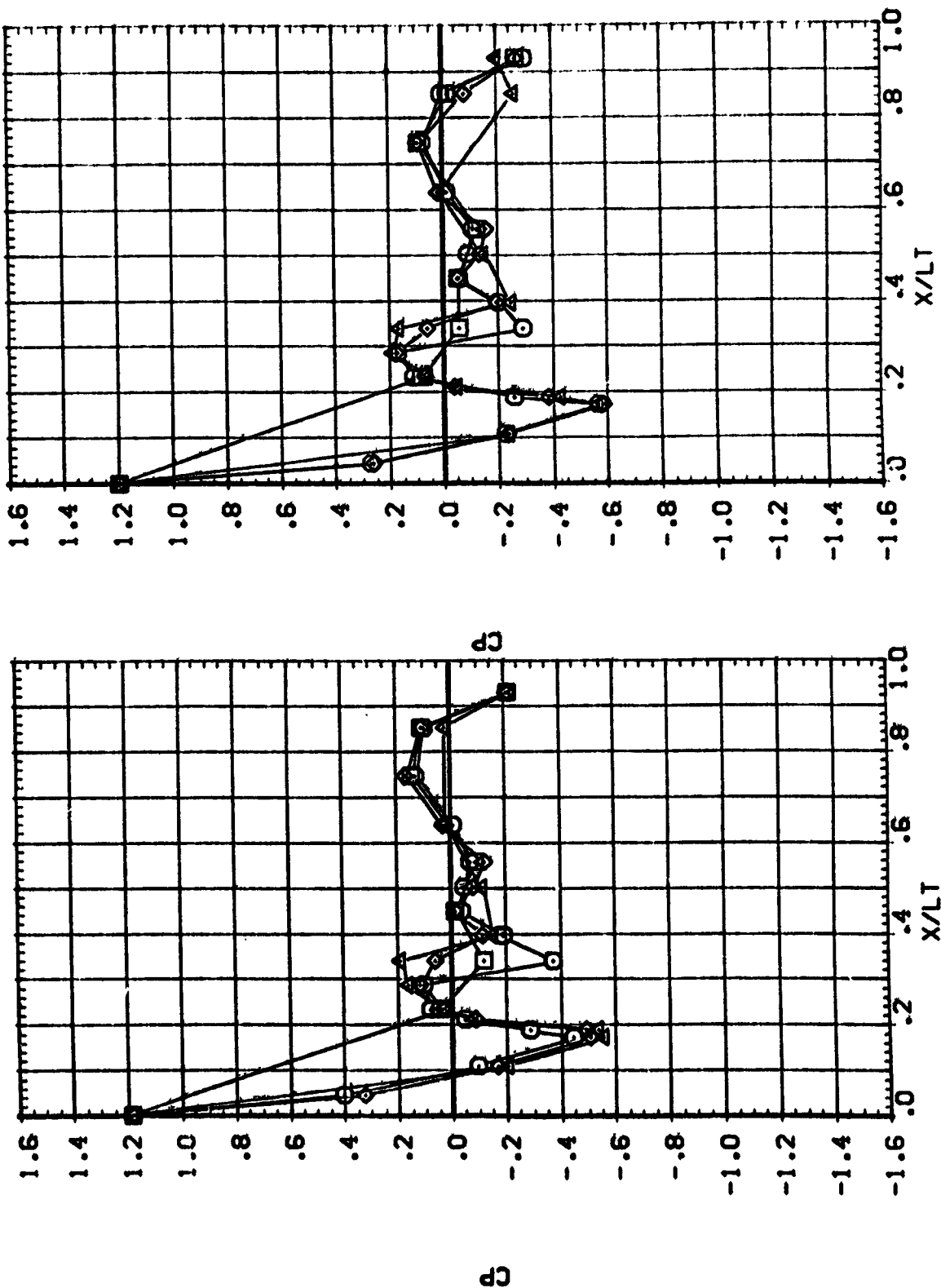
SYMBOL
 ○
 □
 ◇
 △

PHI
 120.000
 125.000
 150.000
 165.000

BETAT
 -4.080
 2.070

MACH
 .501

PARAMETRIC VALUES
 ALPHAT 4.000
 RUDDER .000
 RUOFLA .000
 ORBITAL .500
 ELEVON .000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES



AMES 11-707 1A9 02A + S3 + T9 EXTERNAL TANK (RBMT09)

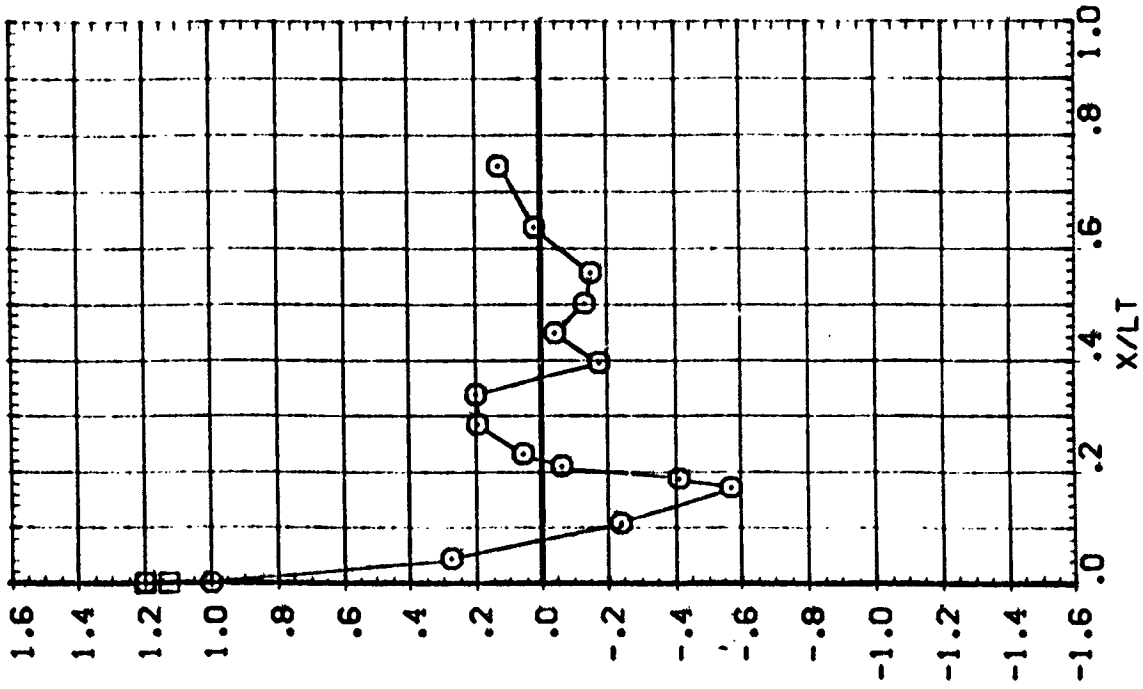
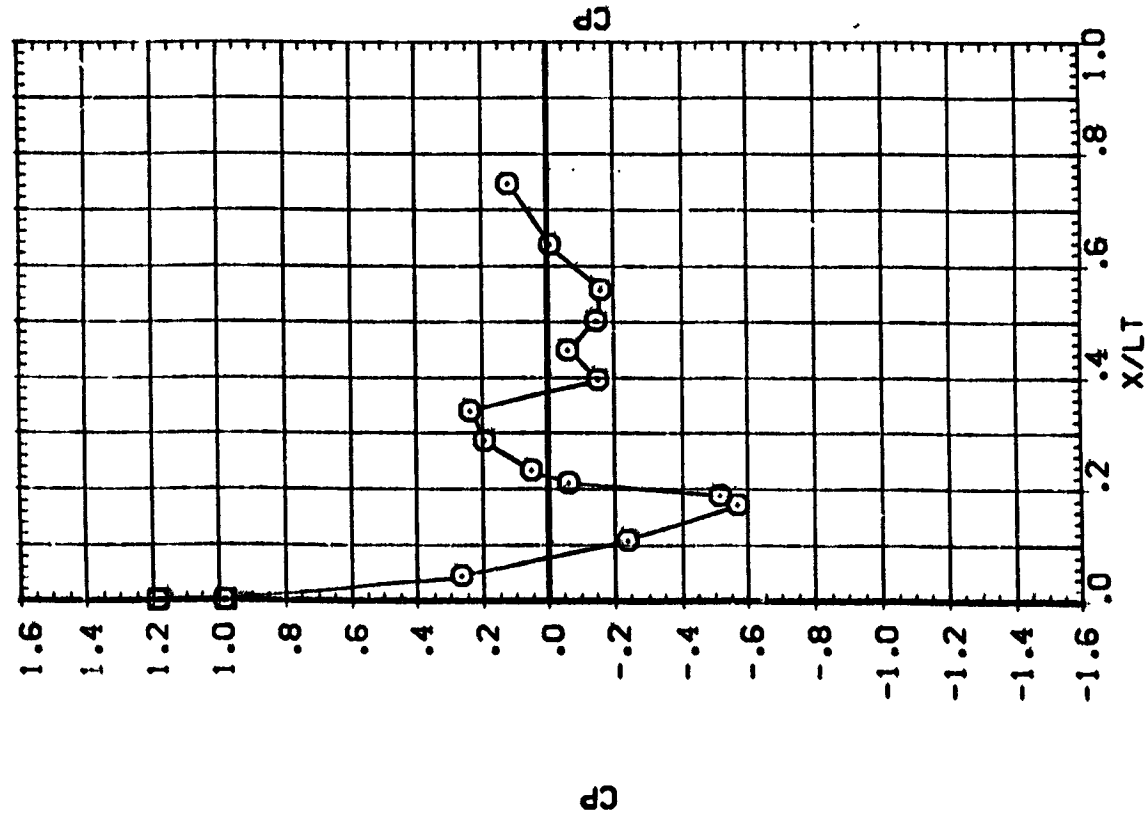
SYMBOL
O
I

PHI 180.000
273.000

BETAT -4.080
2.070

MACH .501

PARAMETRIC VALUES
ALPHAAT 4.000 ORBINC .500
RUDDER .000 ELEVON .000
RUOFLR .000

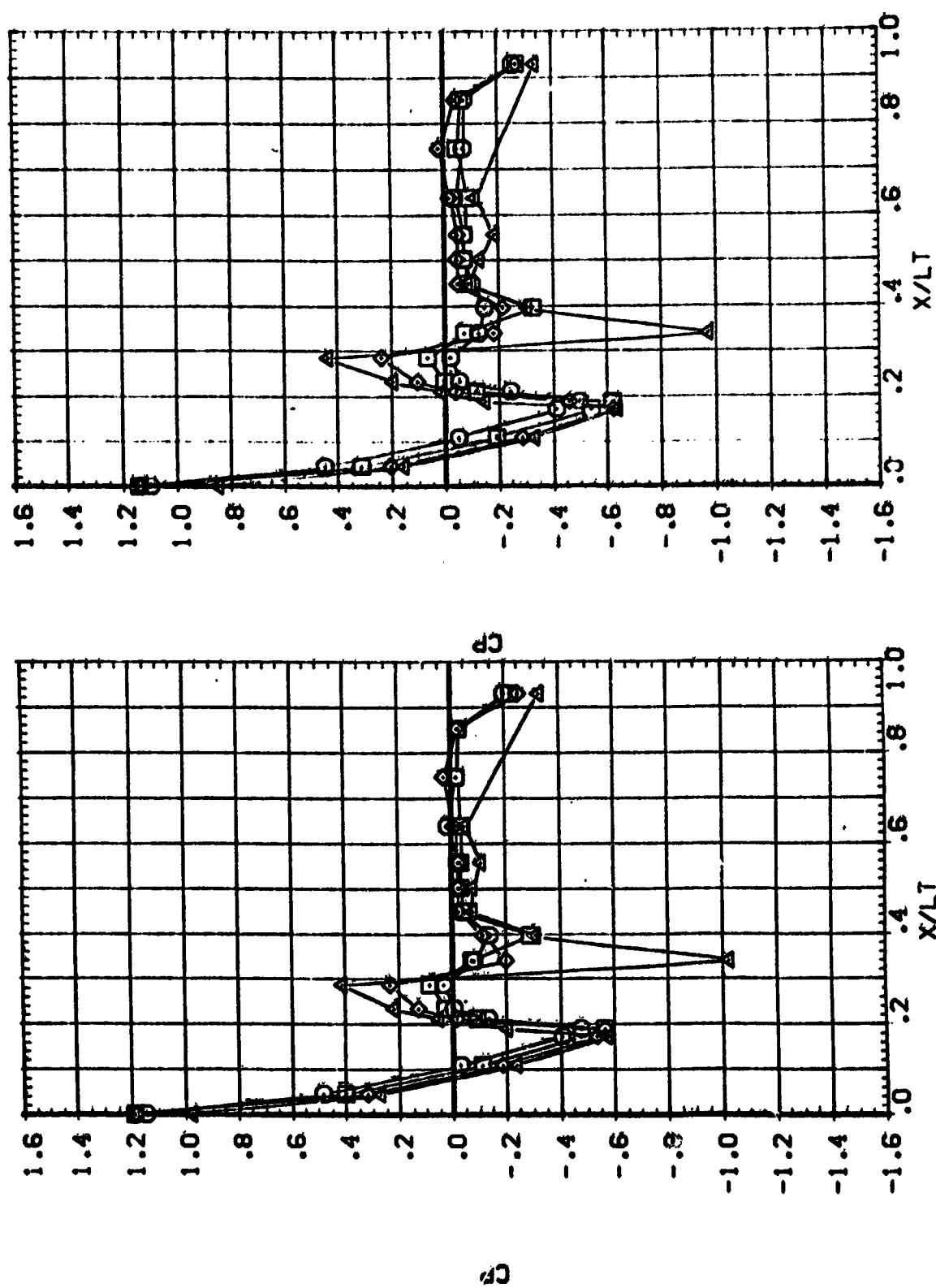


LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES



AMES 11-707 IAS 02A + S3 + T9 EXTERNAL TANK (RBMT09)

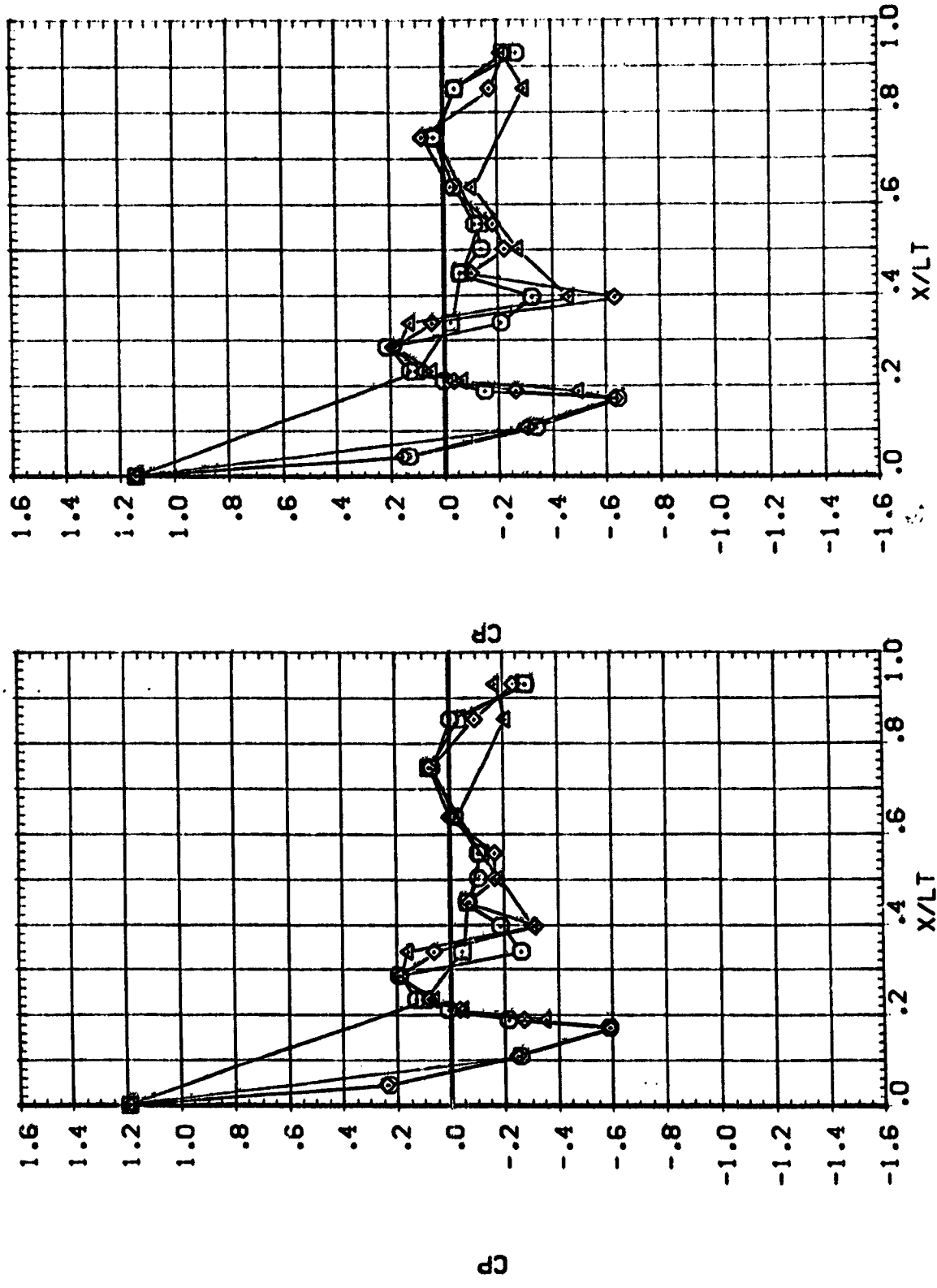
SYMBOL	PHI	BETAT	MACH	PARAMETRIC VALUES
□	.000	4.130	.901	ALPHAT 4.000 ORBINC .500
◇	.30.000	8.290		RJDER .000 ELEVON .000
△	60.000			RJDFLR .000
	90.000			



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 11-707 1A9 02A + S3 + T9 EXTERNAL TANK (RBMT09)

SYMBOL	PHI	BETAT	MACH	PARAMETRIC VALUES
□	120.000	4.130	.901	ALPHAT 4.000 ORBINC .500
◇	135.000	8.240		RJDDR .000 ELEVON .000
△	150.000			RJDFLR .000
	165.000			



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES



AMES 11-707 IAG 02A + S3 + T9 EXTERNAL TANK (RBMT09)

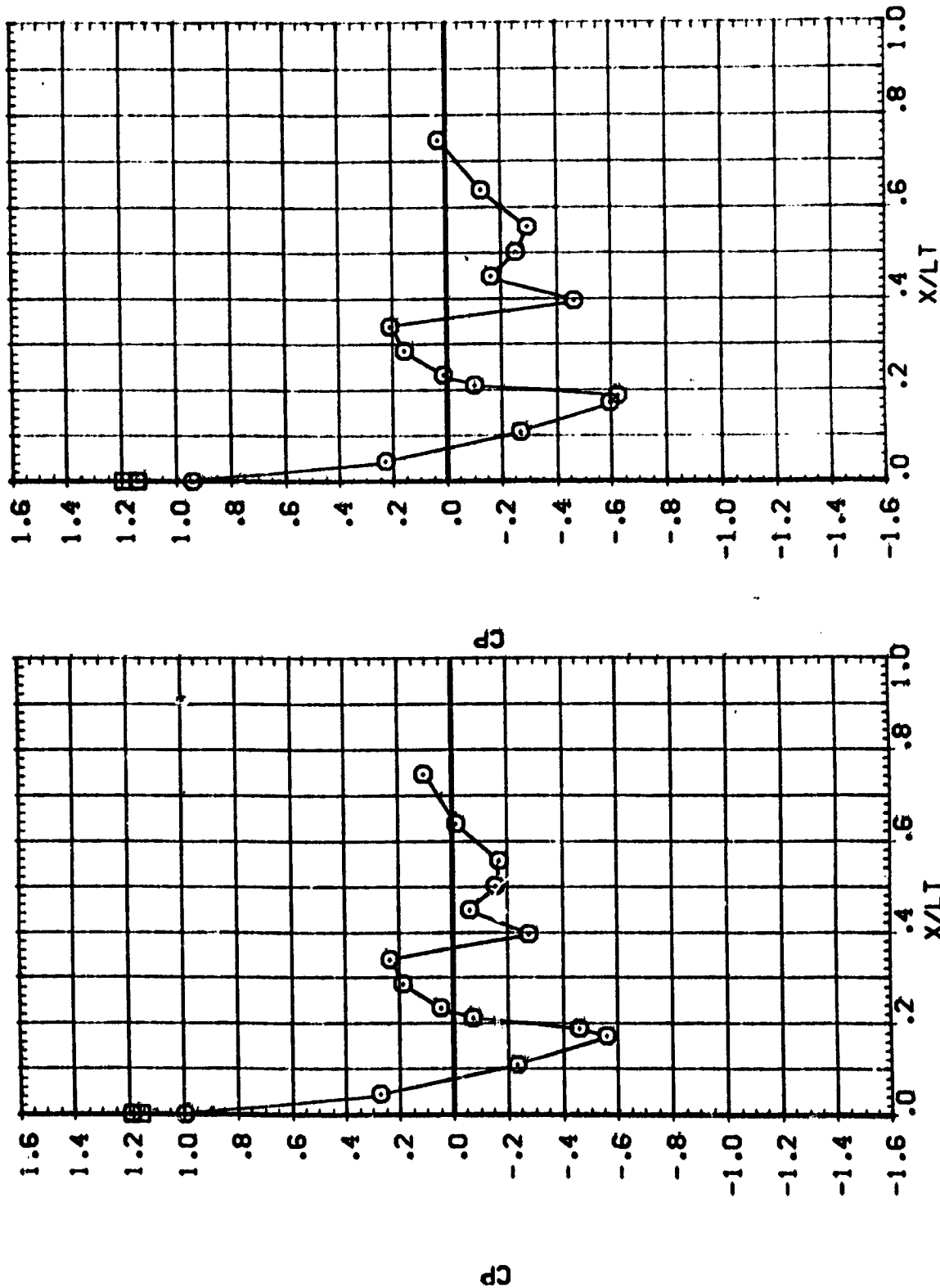
SYMBOL
○ □

PMI 180.000
270.000

BETAT 4.130
8.240

MACH .901

PARAMETRIC VALUES
ALPHAT 4.000
RLODER .000
RLOFLR .000
ORGINC .500
ELEVON .000

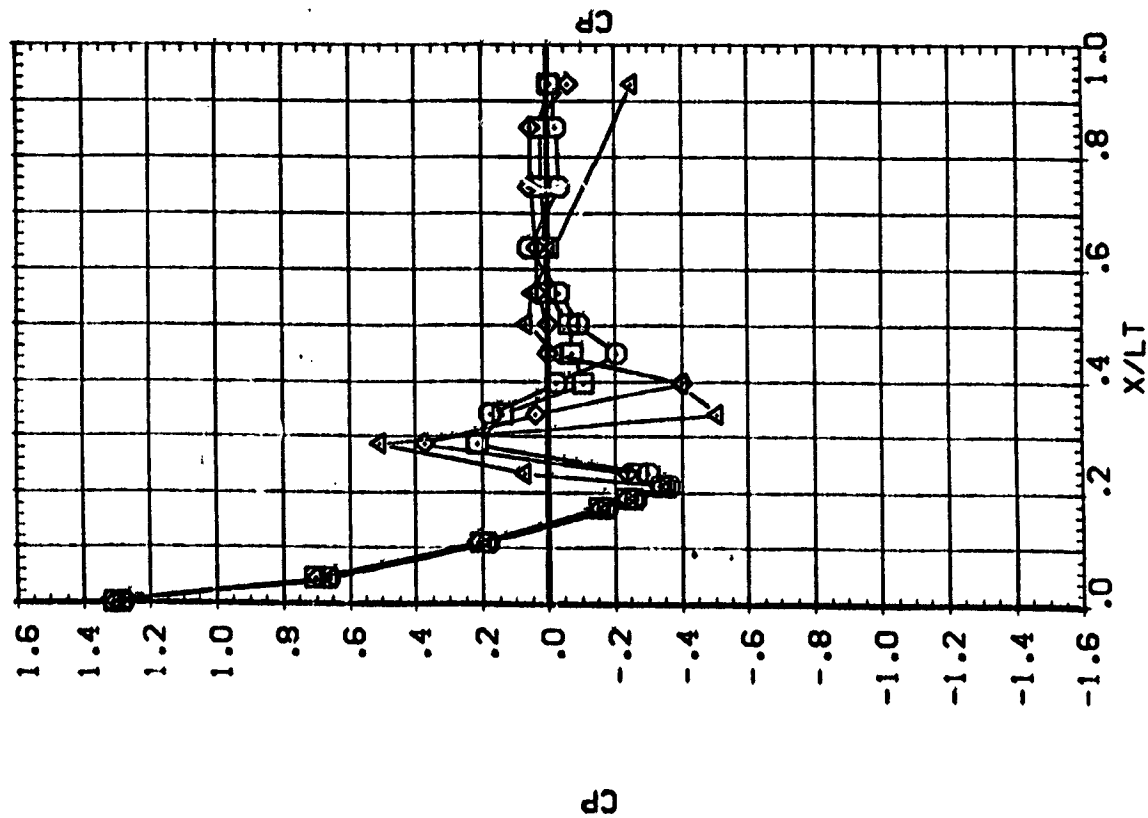
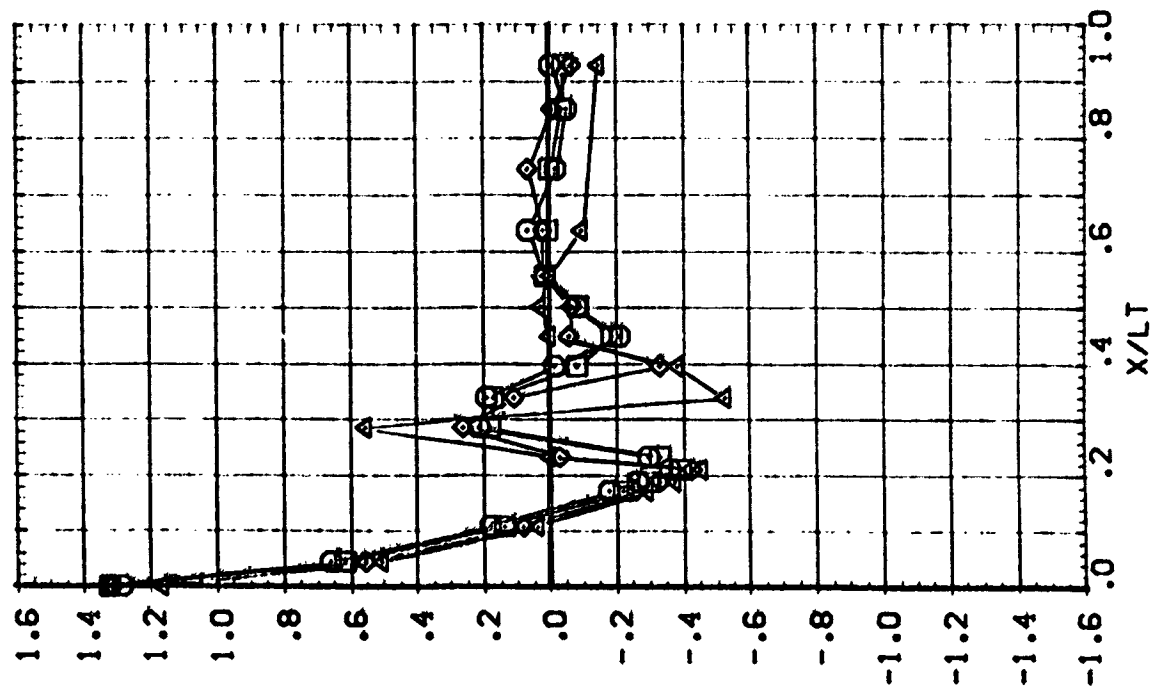


LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 11-707 1A9 02A + S3 + T9 EXTERNAL TANK

PARAMETRIC VALUES	
ALPHAT	4.000 DRBINC
RJDDER	.000 ELEVEN
RJDFLR	.000
	.500
	.000

Symbol	PHI	BETAT	MACH
SV-80L	.000	-4.08G	1.103
○	30.000	2.09G	
◇	60.000		
△	90.000		



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES



AMES 11-707 1A9 02A + S3 + T9 EXTERNAL TANK (RBMT09)

SYMBOL
□
◇
△

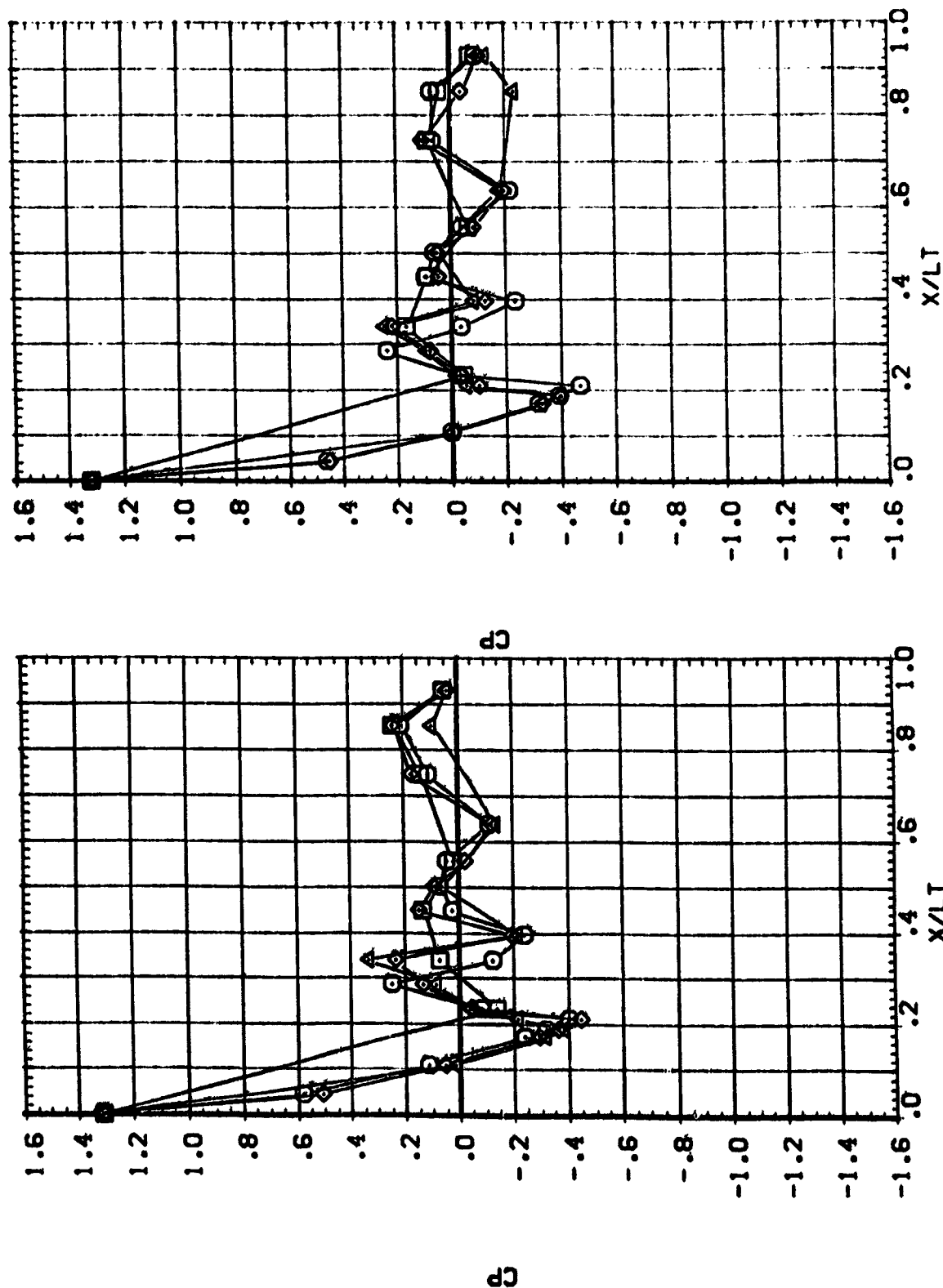
PMI
120.000
135.000
150.000
165.000

BETAT
-4.080
2.080

MACH
1.103

ALPHAT
RJOER
RJOFLR

PARAMETRIC VALUES
4.000
.000
.000
ORBITC
ELEVON
.500
.000



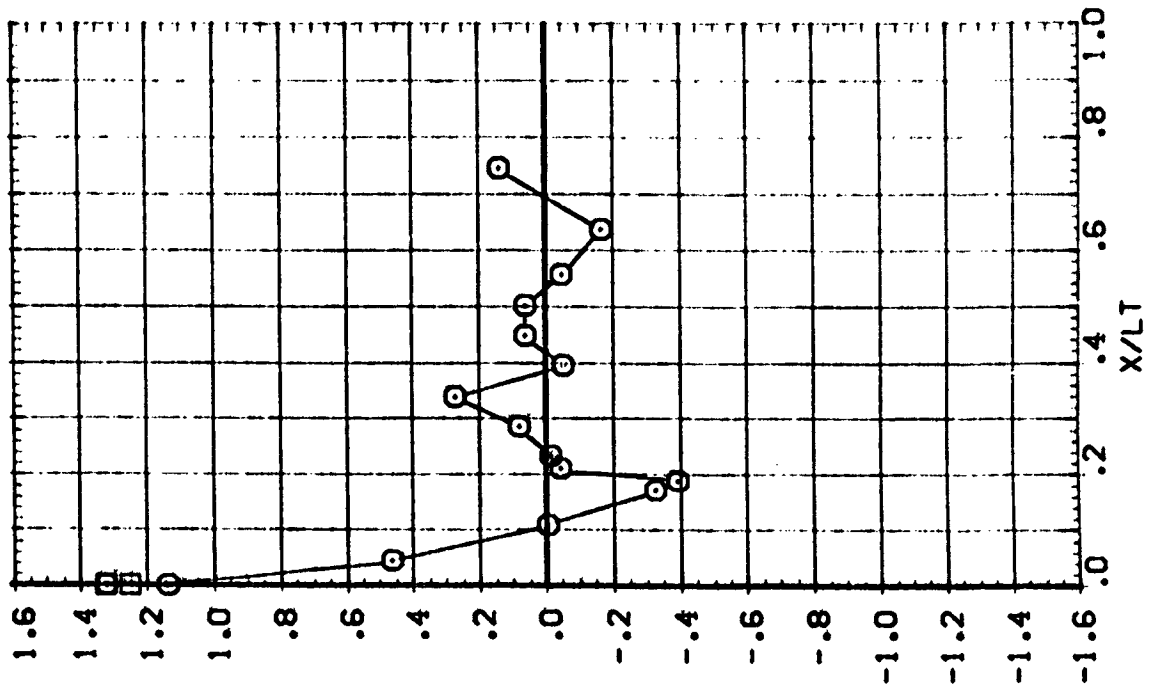
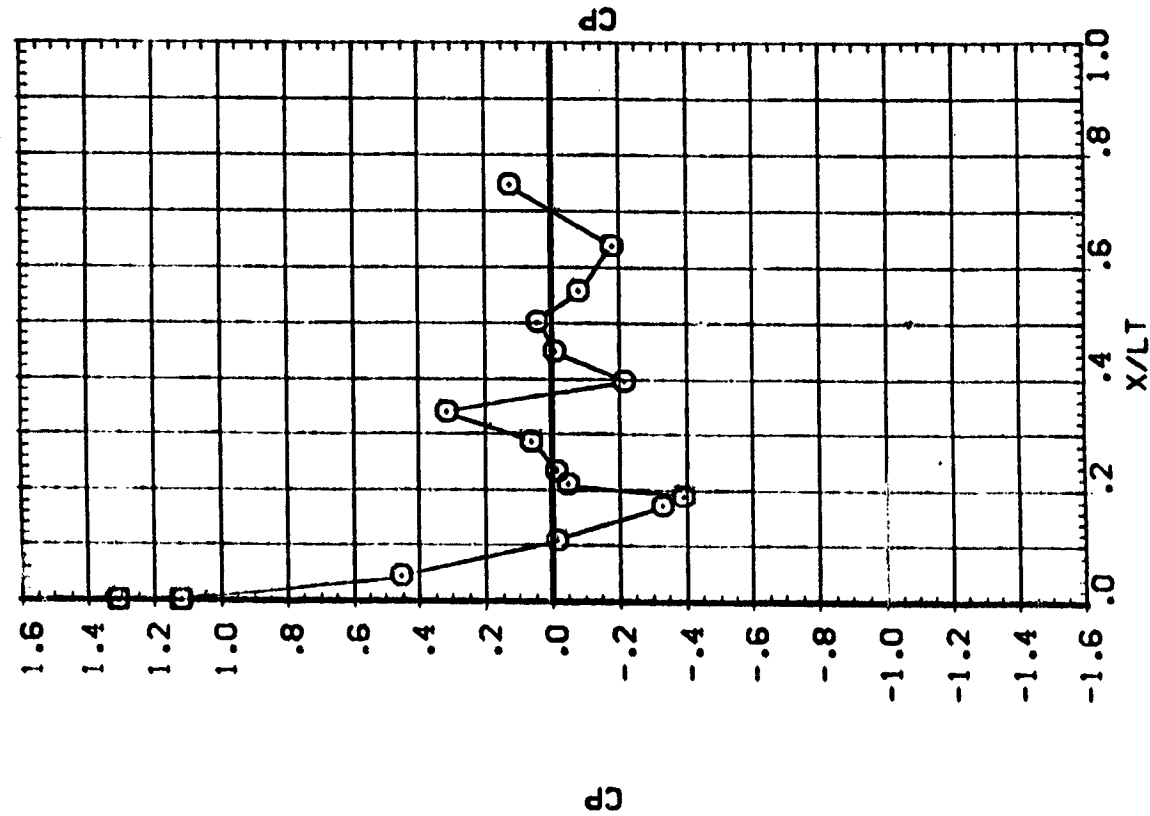
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES



AMES 11-707 1A9 02A + S3 + T9 EXTERNAL TANK (RBMT09)

SYMBOL PHI BETAT MACH
 0 180.000 -4.080 1.103
 1 270.000 2.080

PARAMETRIC VALUES
 ALPHA1 4.000 ORBINC .500
 RUDDER .000 ELEVON .000
 RUDFLR .000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

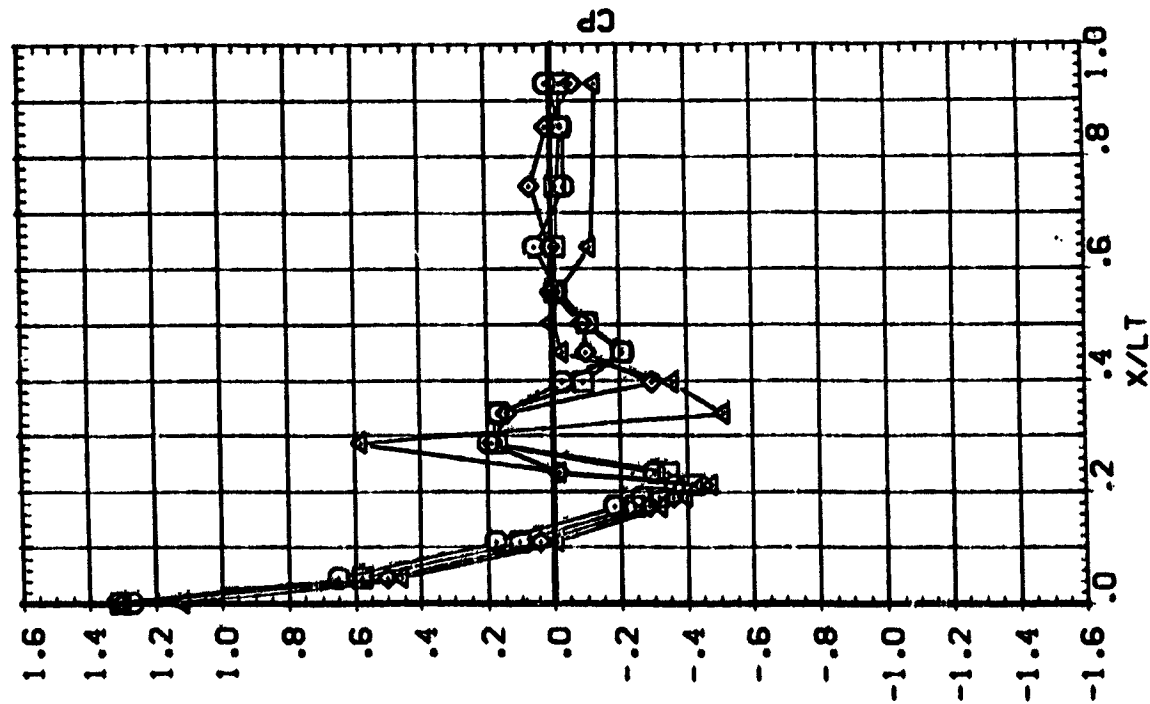
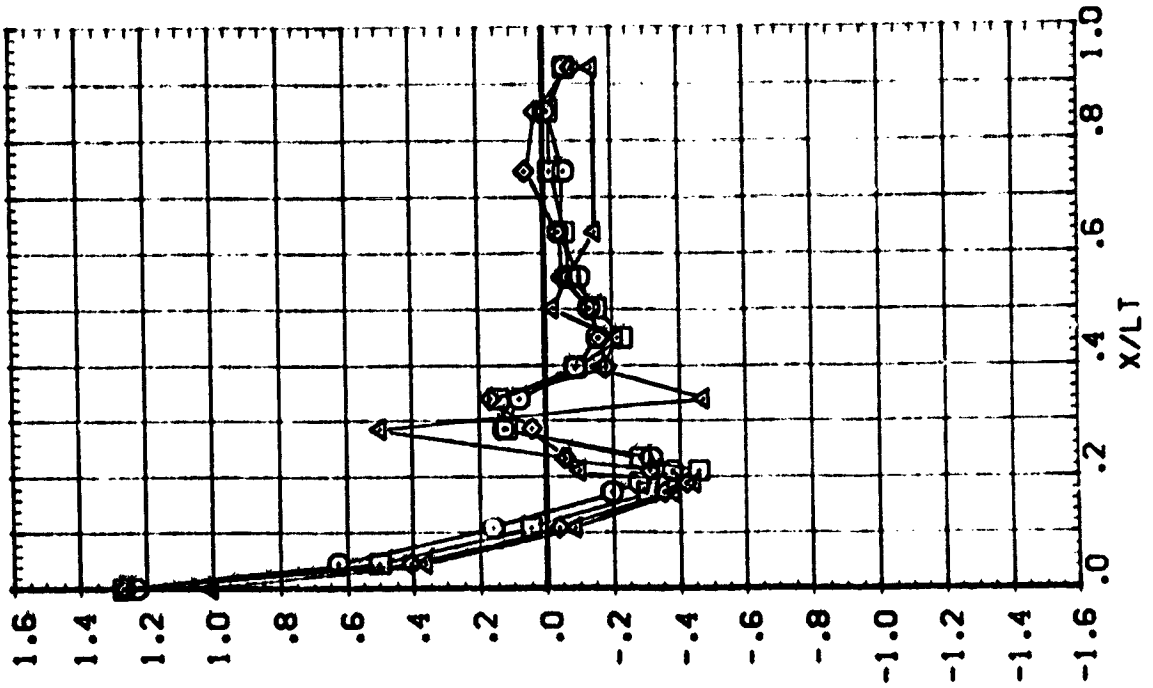


AMES 11-707 1A9 02A + S3 + T9 EXTERNAL TANK (RBMT09)

SYMBOL
 ○ □ ◇ △

PHI .000 4.140 1.103
 30.000 8.260
 60.000
 90.000

PARAMETRIC VALUES
 ALPHAAT 4.000 ORBINC .500
 RUDDER .000 ELEVON .000
 RUJFLR .000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES



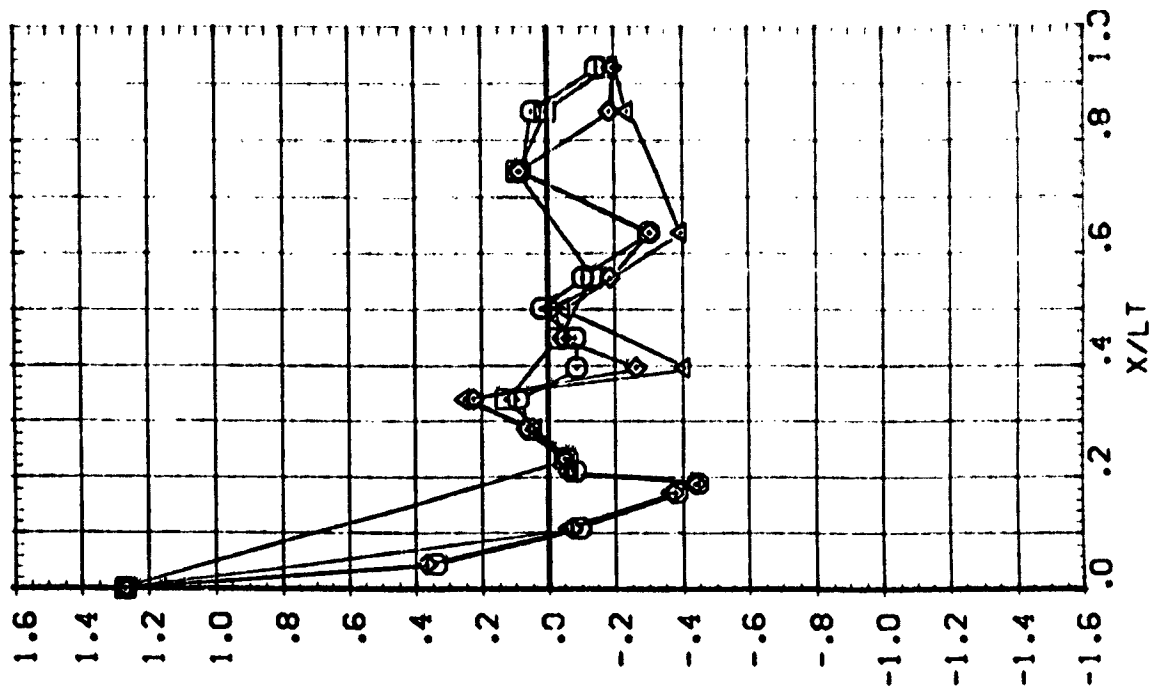
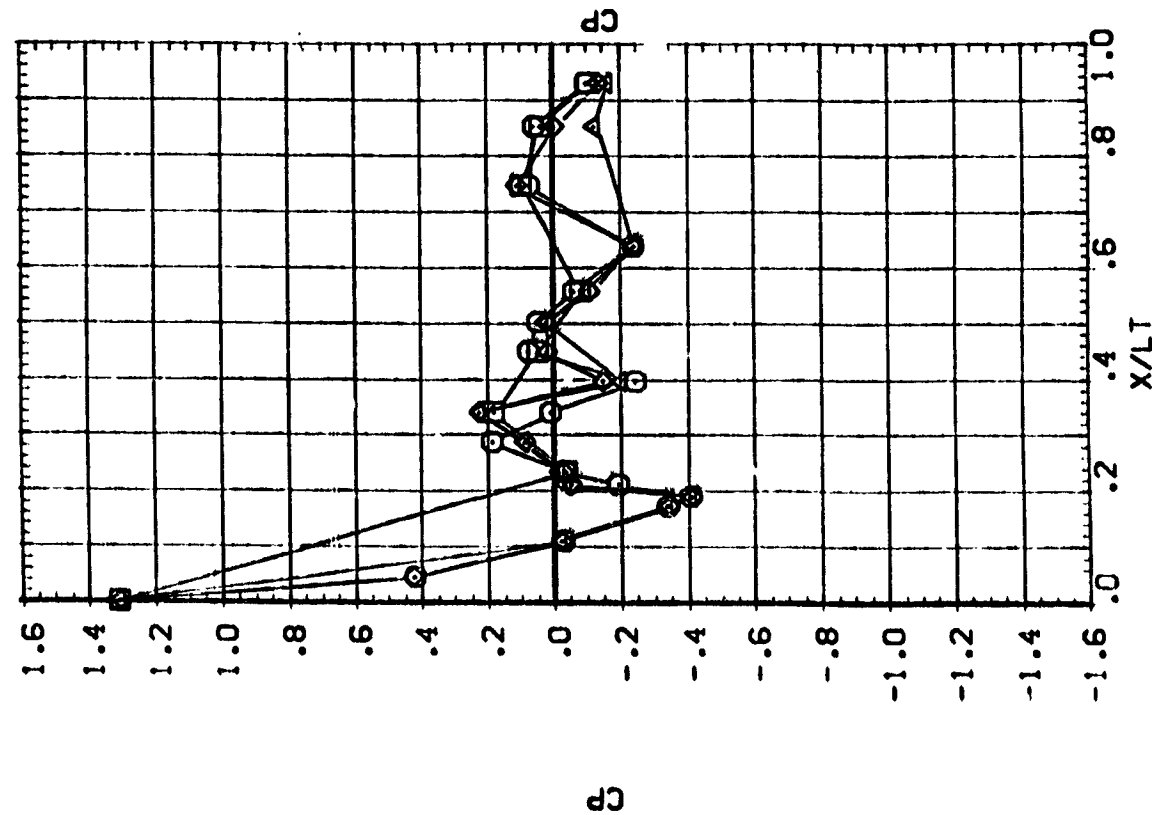
AMES 11-707 1A9 C2A + S3 + T9 EXTERNAL TANK

(RBMT09)

SYMBOL
 ○ 120.000
 □ 135.000
 ◇ 150.000
 △ 165.000

PHI
 BETAT
 MACH
 4.140
 8.260
 1.103

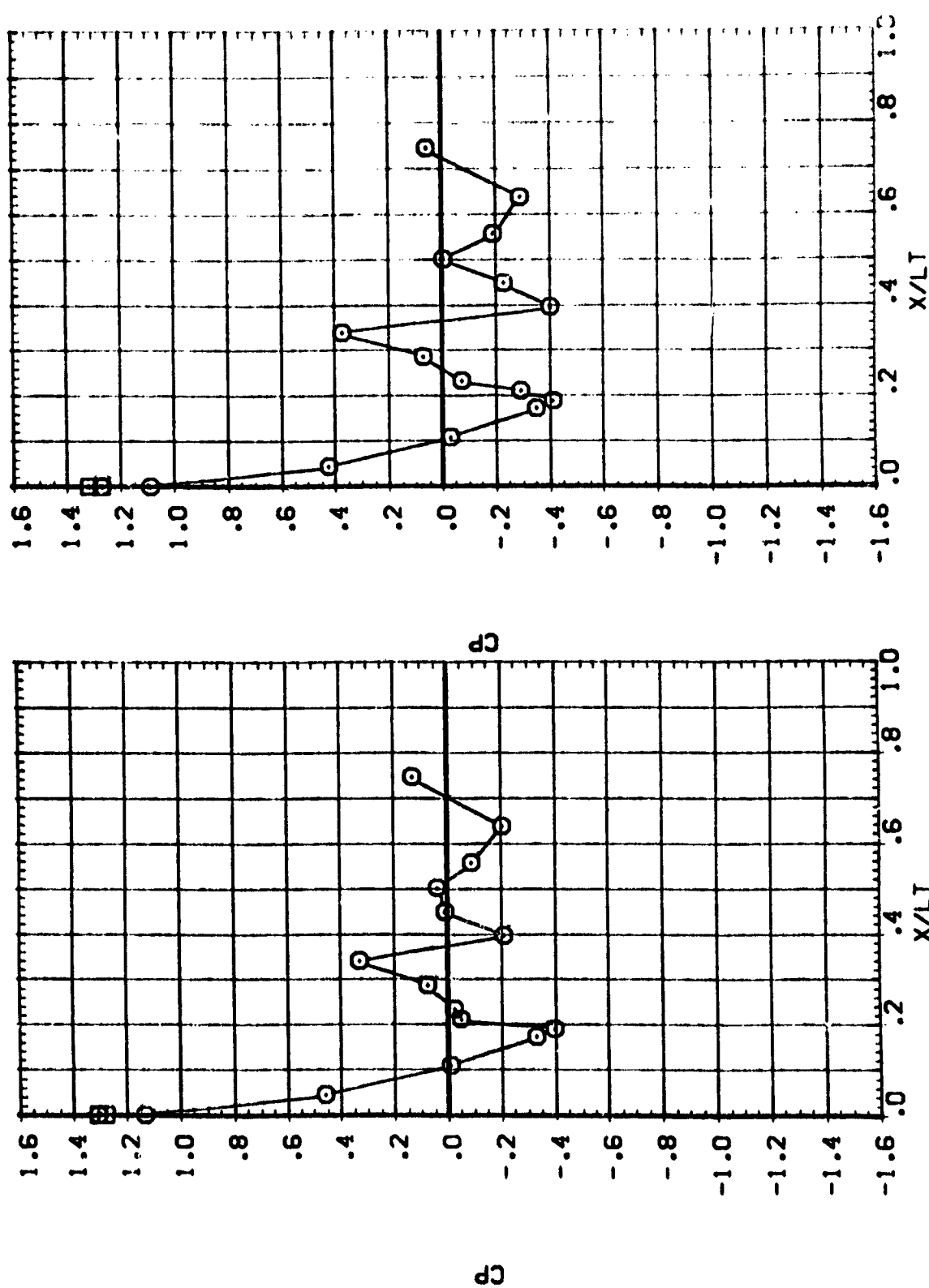
PARAMETRIC VALUES
 ALPHAT 4.000
 RJOOR .000
 RJOFLR .000
 ORBINC .500
 ELEVON .500



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 11-707 1A9 02A + S3 + T9 EXTERNAL TANK (RBMT09)

SYMBOL	PHI	BETAT	MACH	ALPHAT	ORBITAL
180.000	4.140	1.103	4.000	.000	.500
270.000	8.260		.000	.000	.000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES



C-6

AMES 11-707 1A9 02A + S3 + T9 EXTERNAL TANK (RBMT09)

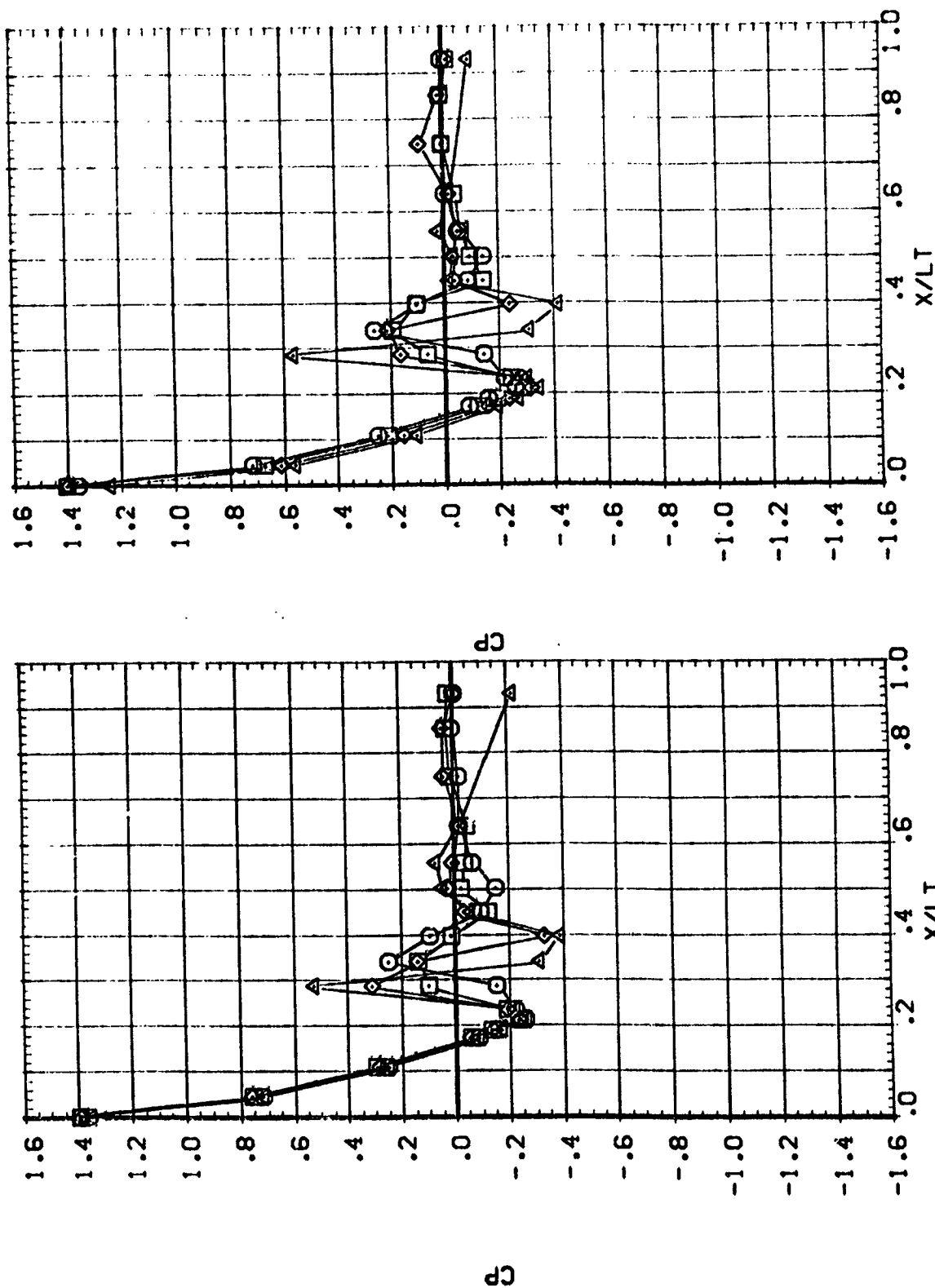
SYMB:
 O
 □
 ◇
 △

PHI
 .000
 30.000
 60.000
 90.000

BETAT
 -4.060
 2.070

MACH
 1.249

PARAMETRIC VALUES
 ALPHA 4.000 ORBINC .500
 RUDDER .000 ELEVON .000
 RUJFLR .000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 11-707 1A9 02A + S3 + T9 EXTERNAL TANK (RBMT09)

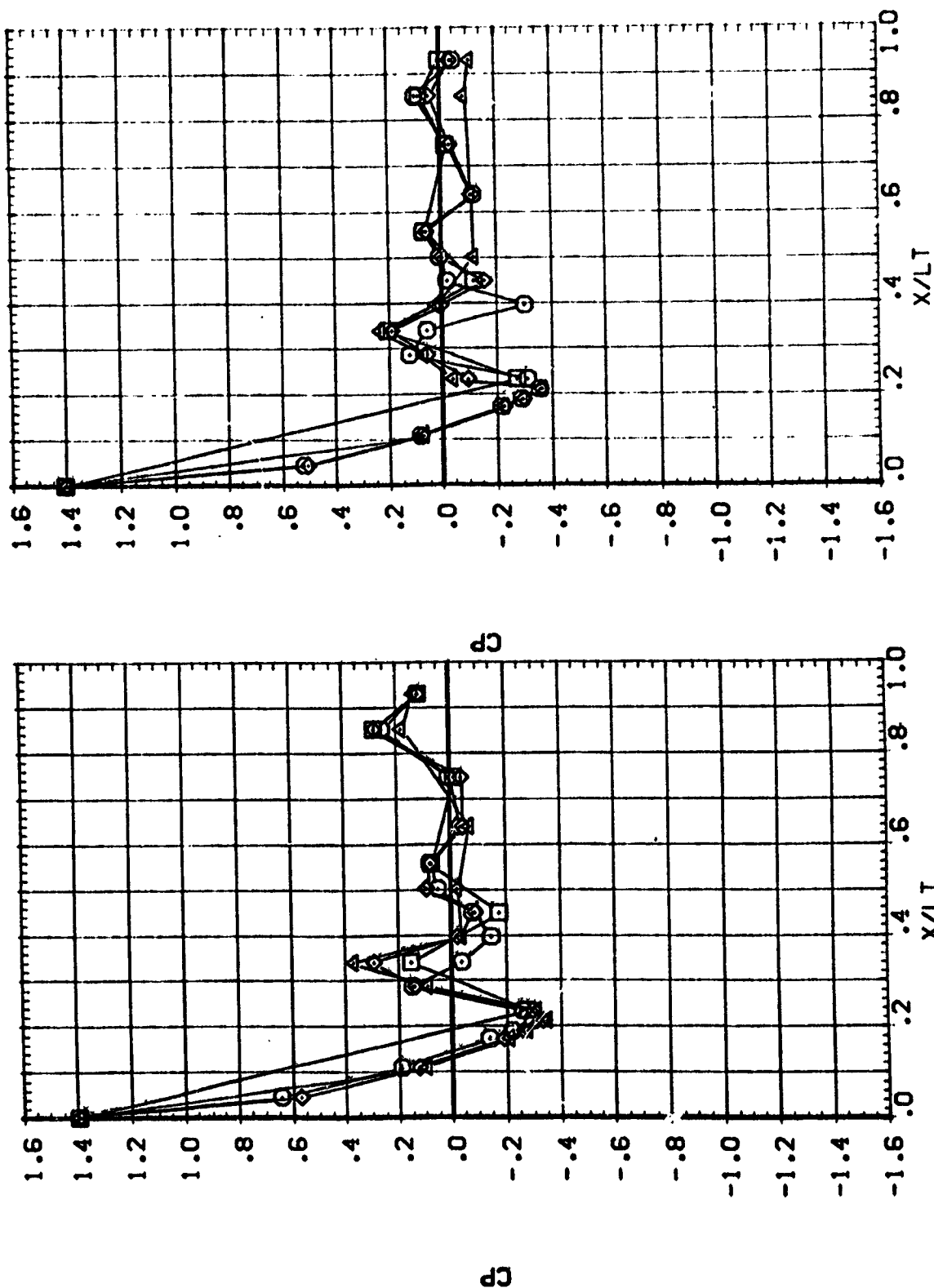
SYMBOL

PHI
120.000
135.000
150.000
165.000

BETAT
-4.060
2.070

MACH
1.249

PARAMETRIC VALUES
ALPHA1 4.000
RUDER .000
RDELTA .000
ORBIT .500
ELEV .000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES



AMES 11-707 :A9 02A + S3 + T9 EXTERNAL TANK (RBMT09)

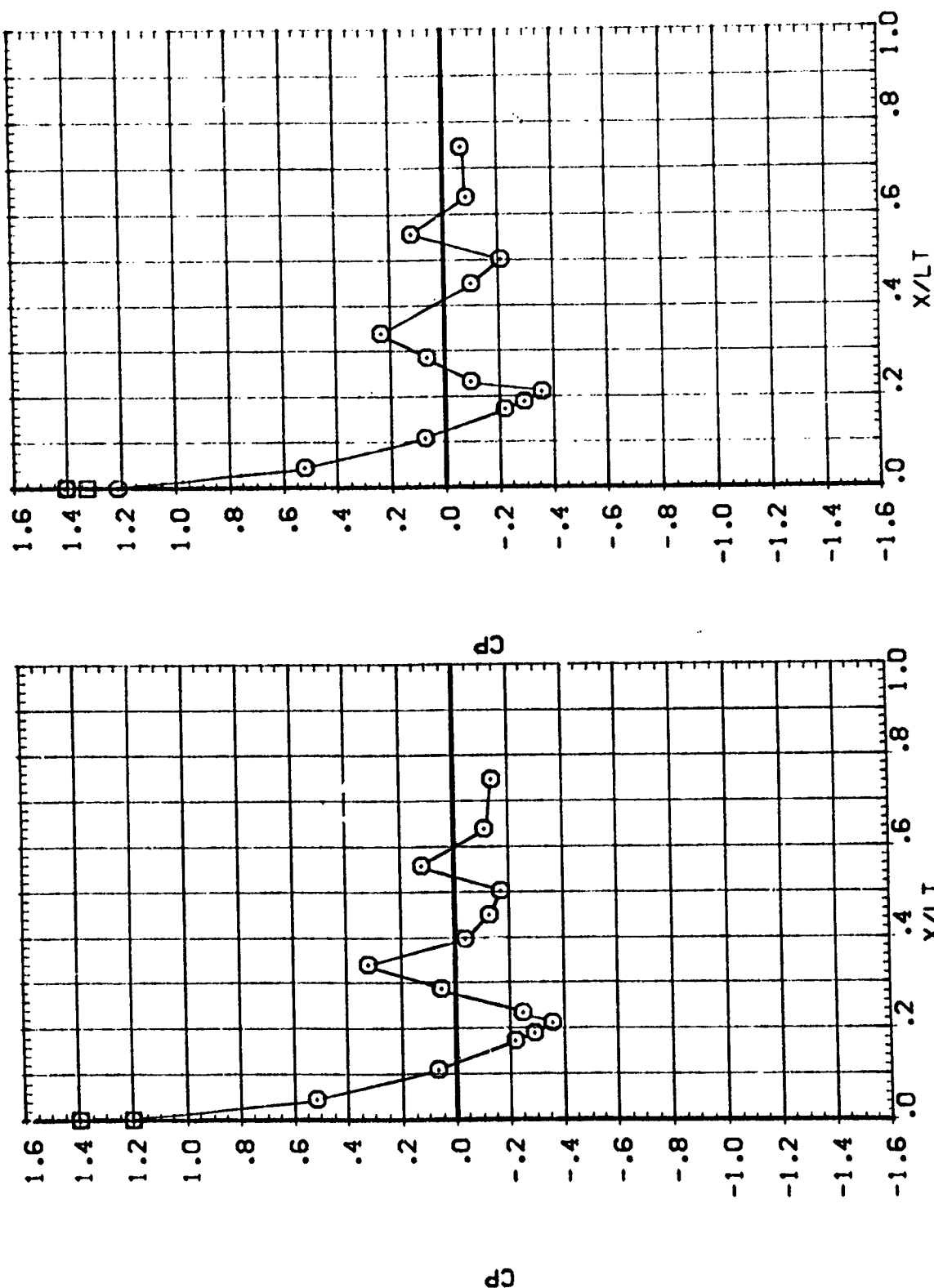
SYMBOL
OL

PHI 180.000
270.000

BETA -4.050
2.070

MACH 1.249

PARAMETRIC VALUES
ALPHA 4.000
RUDDER .000
RDEFIR .000
ORBING .500
ELEVON .000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 11-707 I A9 02A + S3 + T9 EXTERNAL TANK (RBMT09)

SYMBOL

PHI

BETAT

MACH

4.110

8.210

1.249

.000

30.000

60.000

90.000

○

□

◇

△

PARAMETRIC VALUES

ALPHAT

RLODR

RLOFLR

4.000

.000

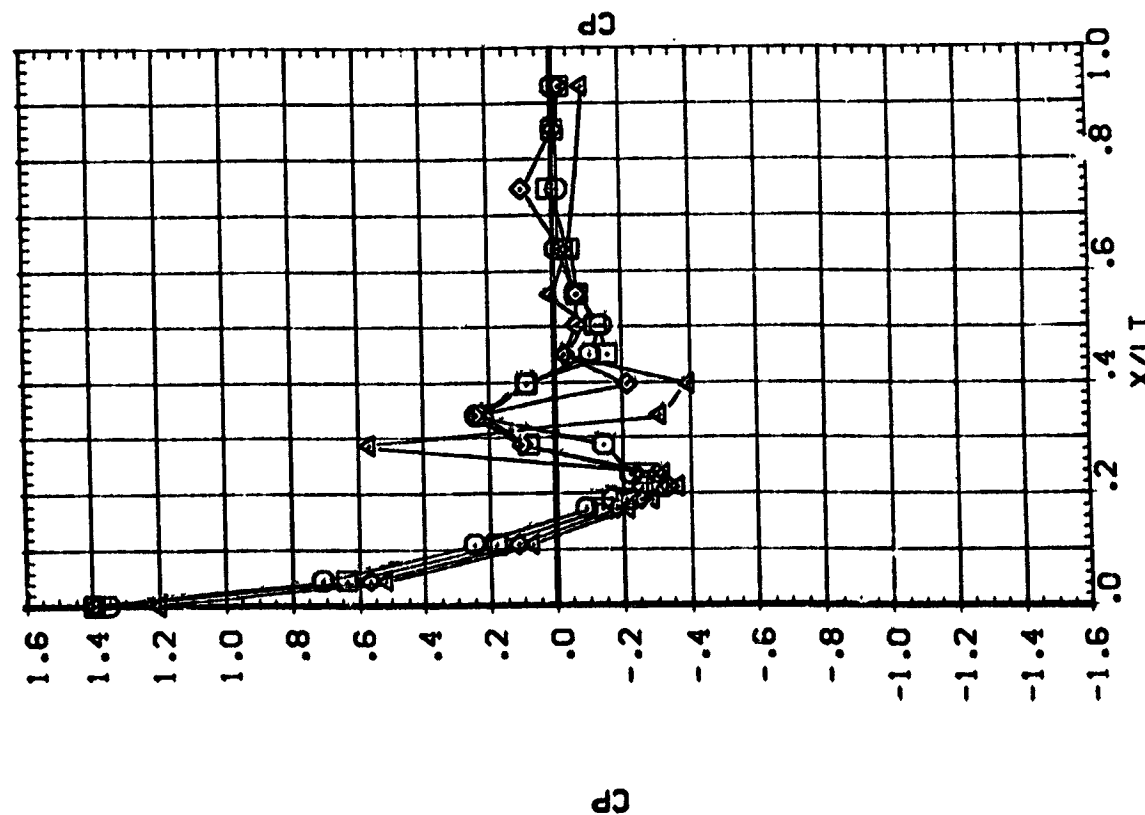
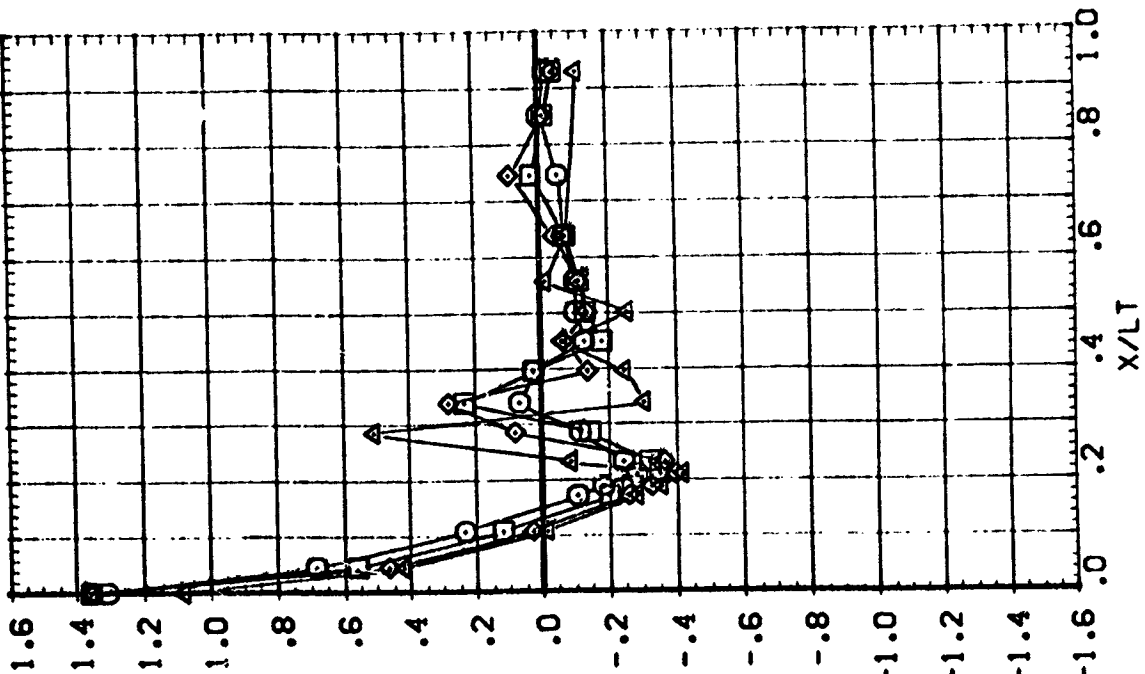
.000

ORBLINC

ELEVON

.500

.000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

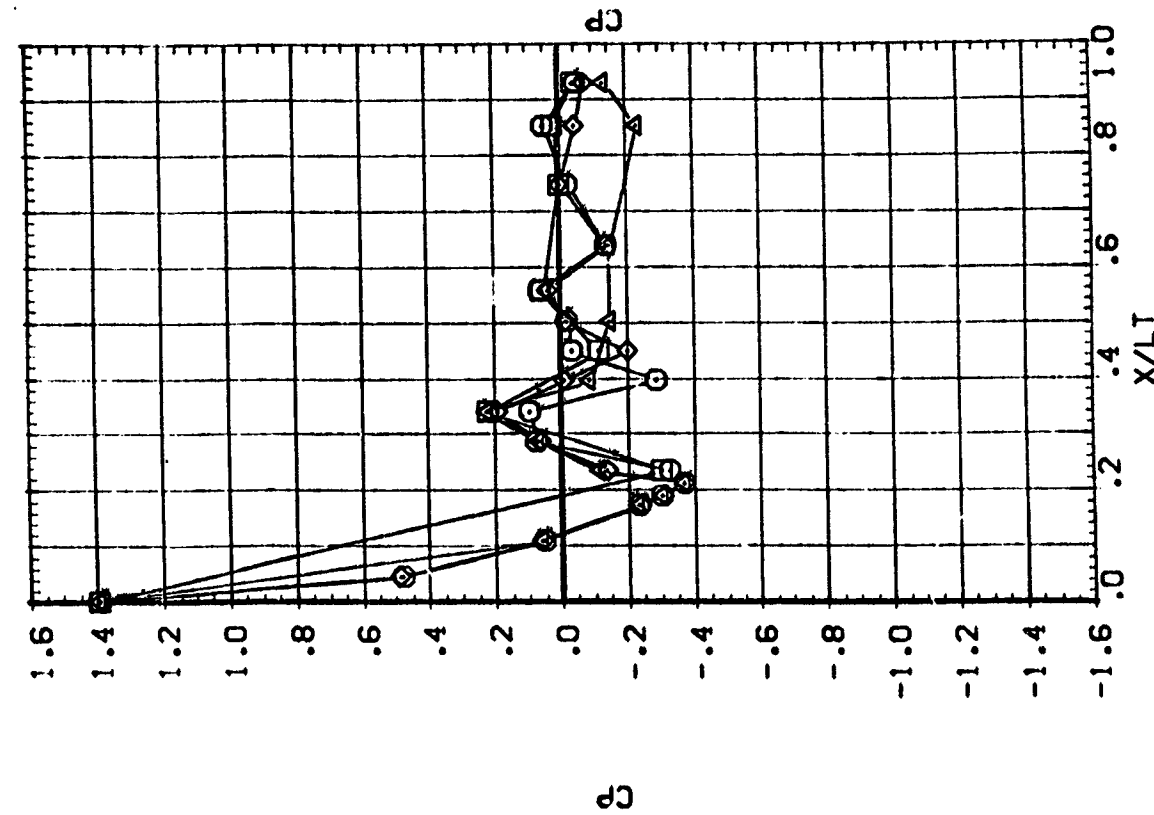
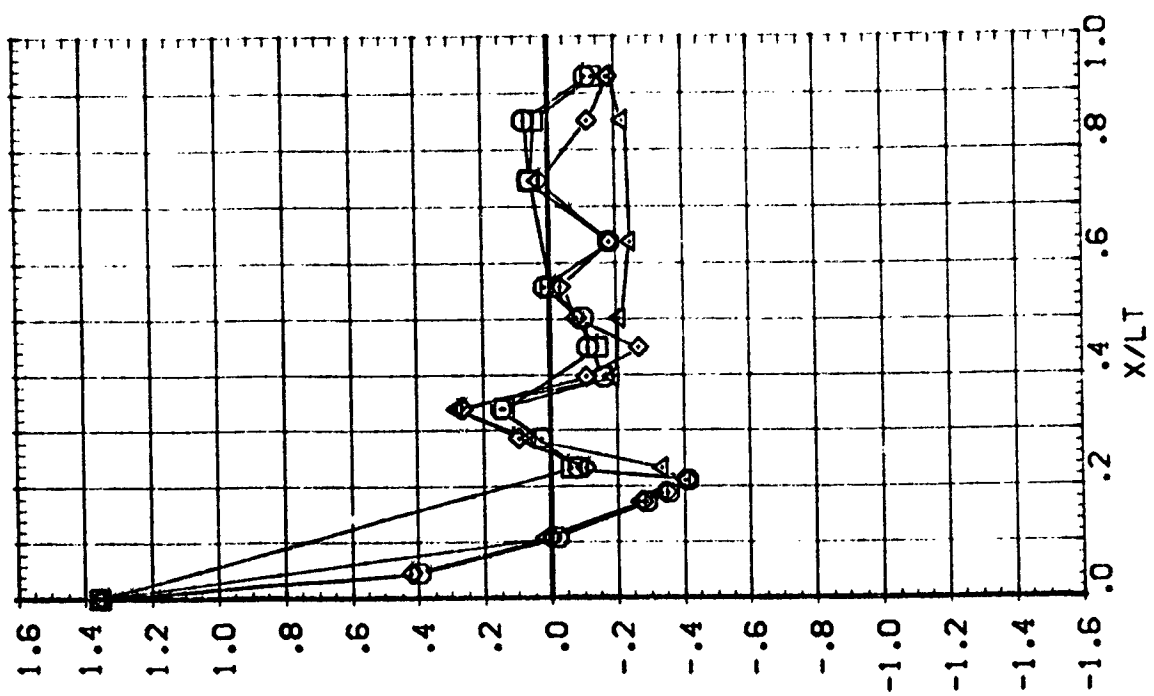


AMES 11-707 IA9 02A + S3 + T9 EXTERNAL TANK (RBMT09)

PARAMETRIC VALUES
ALPHAT 4.000 DRB'NC .500
RUDDER .000 ELEVON .000
RUOFLR .000

PHI BETAT MACH
120.000 4.110 1.249
135.000 8.210
150.000
165.000

SYMBOL
O
◇
△



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES



AMES 11-707 1A9 02A + S3 + T9 EXTERNAL TANK (RBMT09)

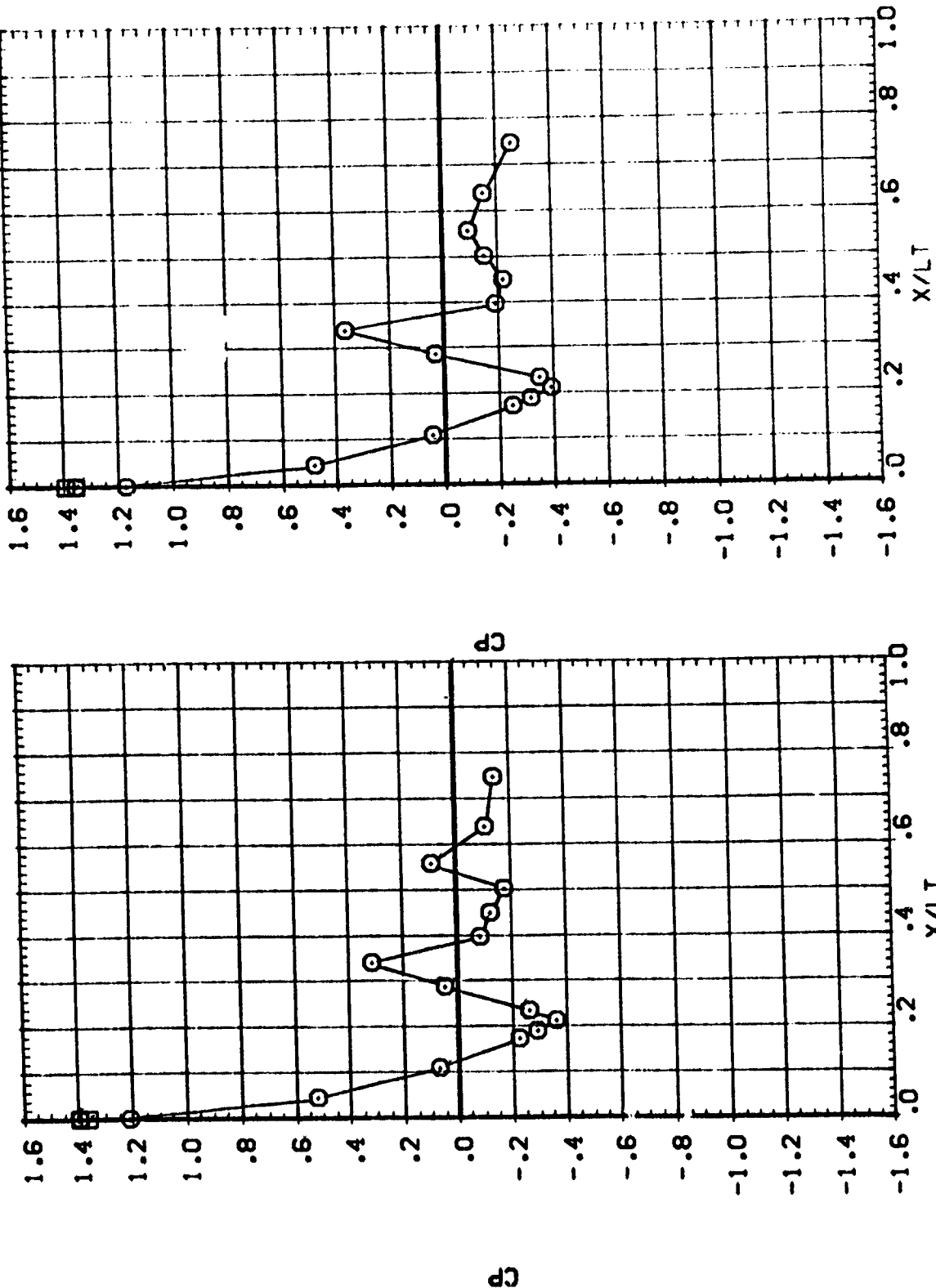
SYMBOL
□

PHI 180.000
270.000

BETA 4.110
8.210

MACH 1.249

PARAMETRIC VALUES
ALPHAT 4.000
RUDDER .000
ELEVON .000
DRBTNC .000
ELEVON .000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

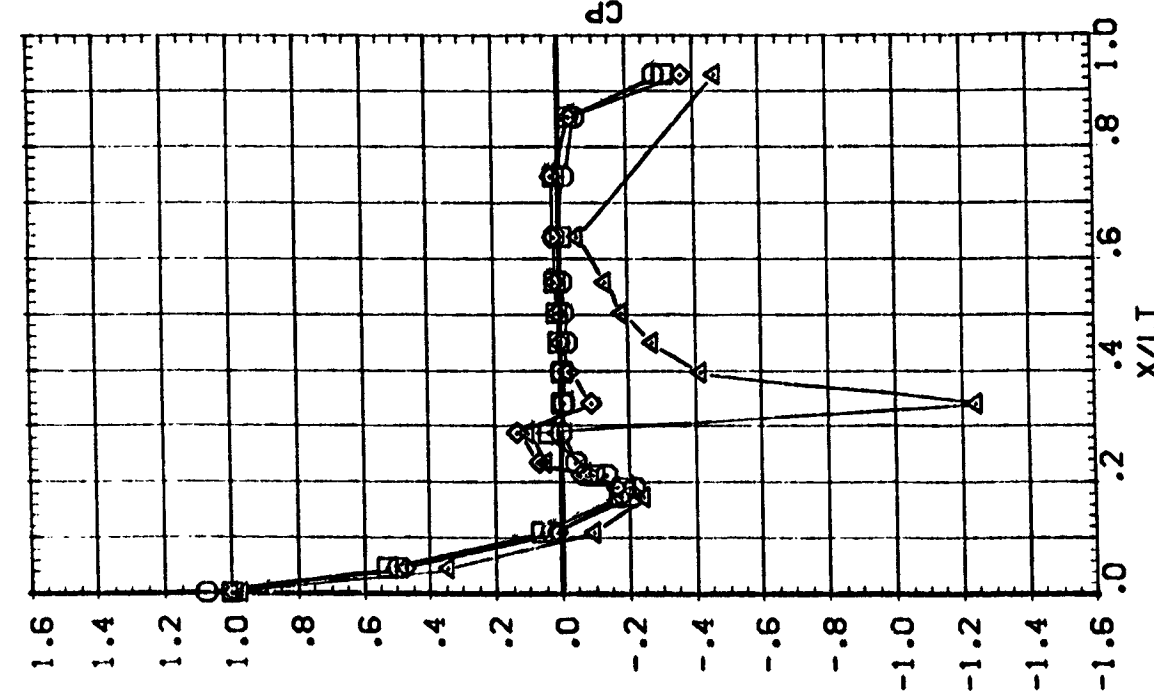
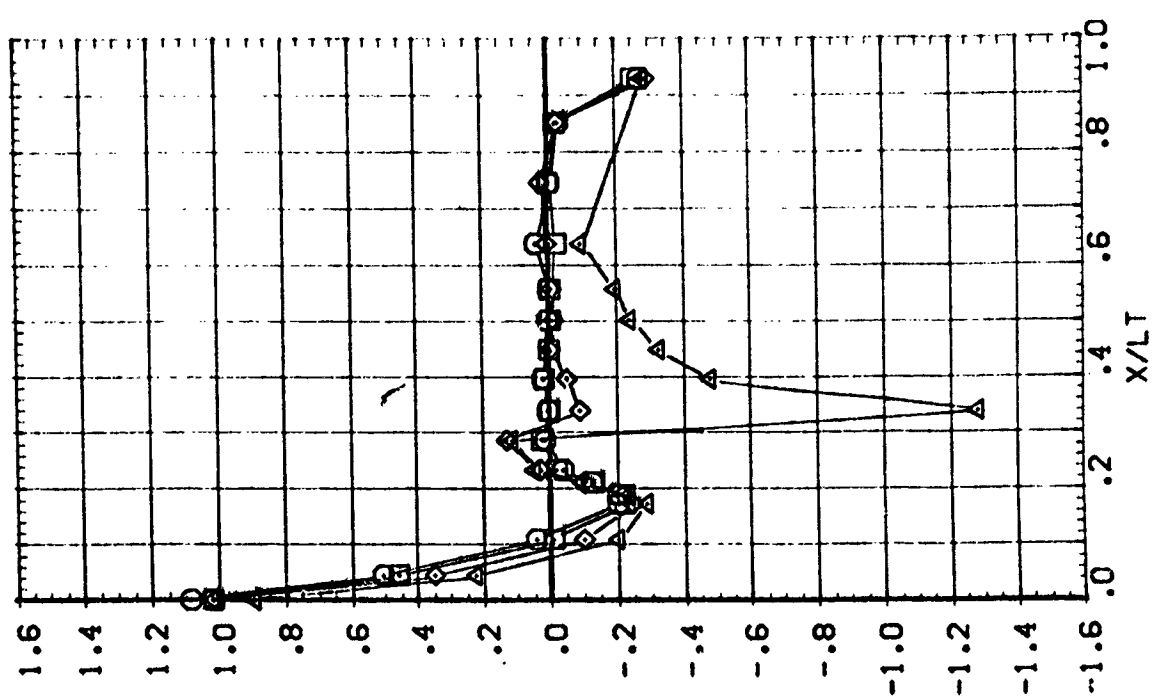
AMES 11-707 1A9 02A + S3 + T9 EXTERNAL TANK (RBMT11)

PARAMETRIC VALUES
 8.000 ORBINC
 .000 ELEVON
 .000

ALPHAT
 RUOER
 RUOFLR

BETAT MACH
 -4.010 .597
 .020

SYNCH-
 0.000
 30.000
 60.000
 90.000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES



ANES 11-707 1A9 02A + S3 + T9 EXTERNAL TANK (RBMT11)

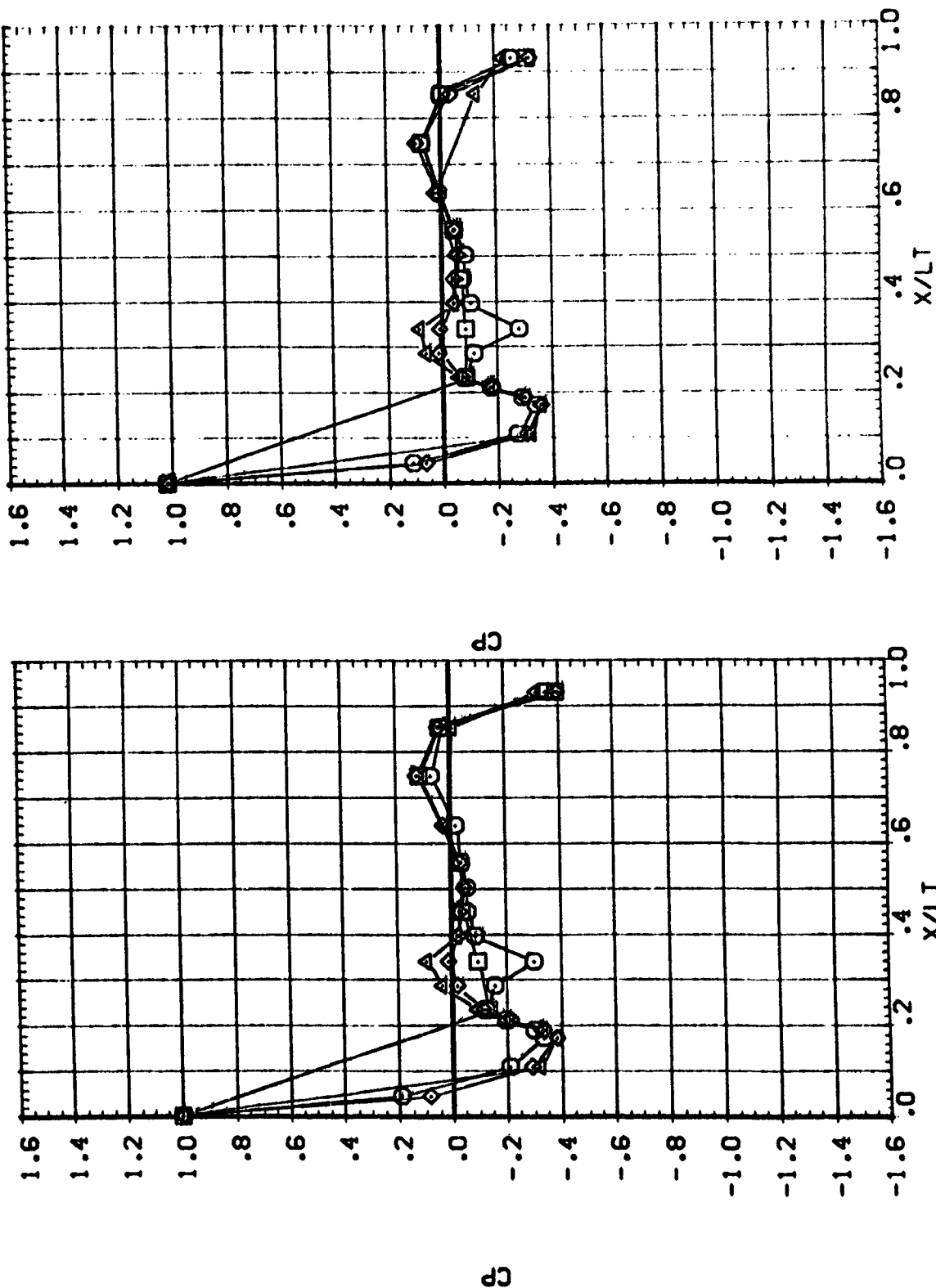
SYMBOL
O
□
◇
△

PHI
120.000
135.000
150.000
165.000

BETAT
-4.010
.020

MACH
.587

PARAMETRIC VALUES
ALPHAT 8.000 ORBINC .500
RUCCER .000 ELEVEN .000
RJDFLR .000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES



AMES 11-707 1A9 02A + S3 + T9 EXTERNAL TANK (RBMT11)

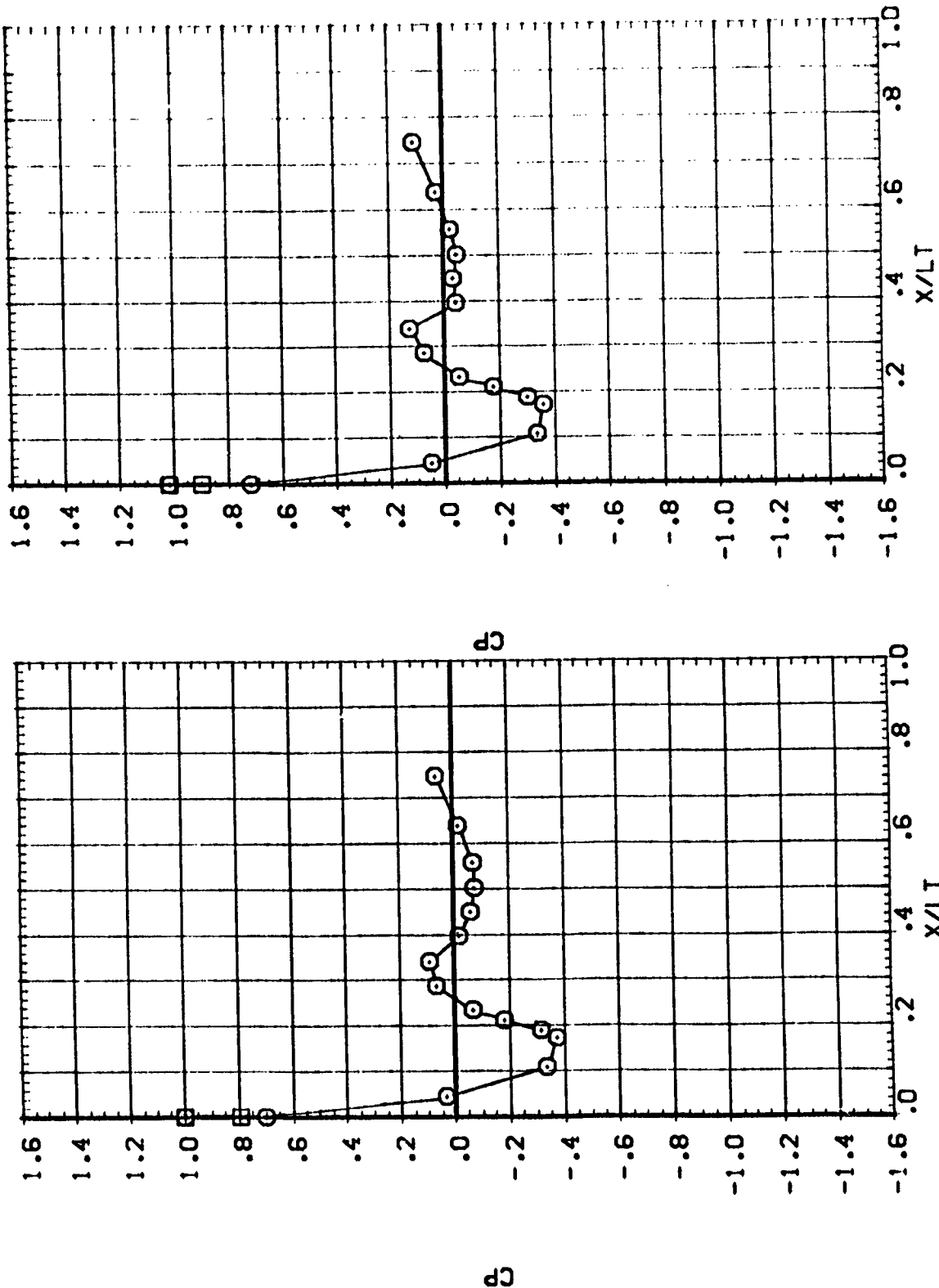
SYMBOL
O
□

PHI 180.000
270.000

BETAT -4.010
.020

MACH .597

PARAMETRIC VALUES
ALPHAT 8.000 ORBINC .500
RUDDER .000 ELEVEN .000
RUDFLR .000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES



AMES 11-707 1A9 02A + S3 + T9 EXTERNAL TANK (RBMT11)

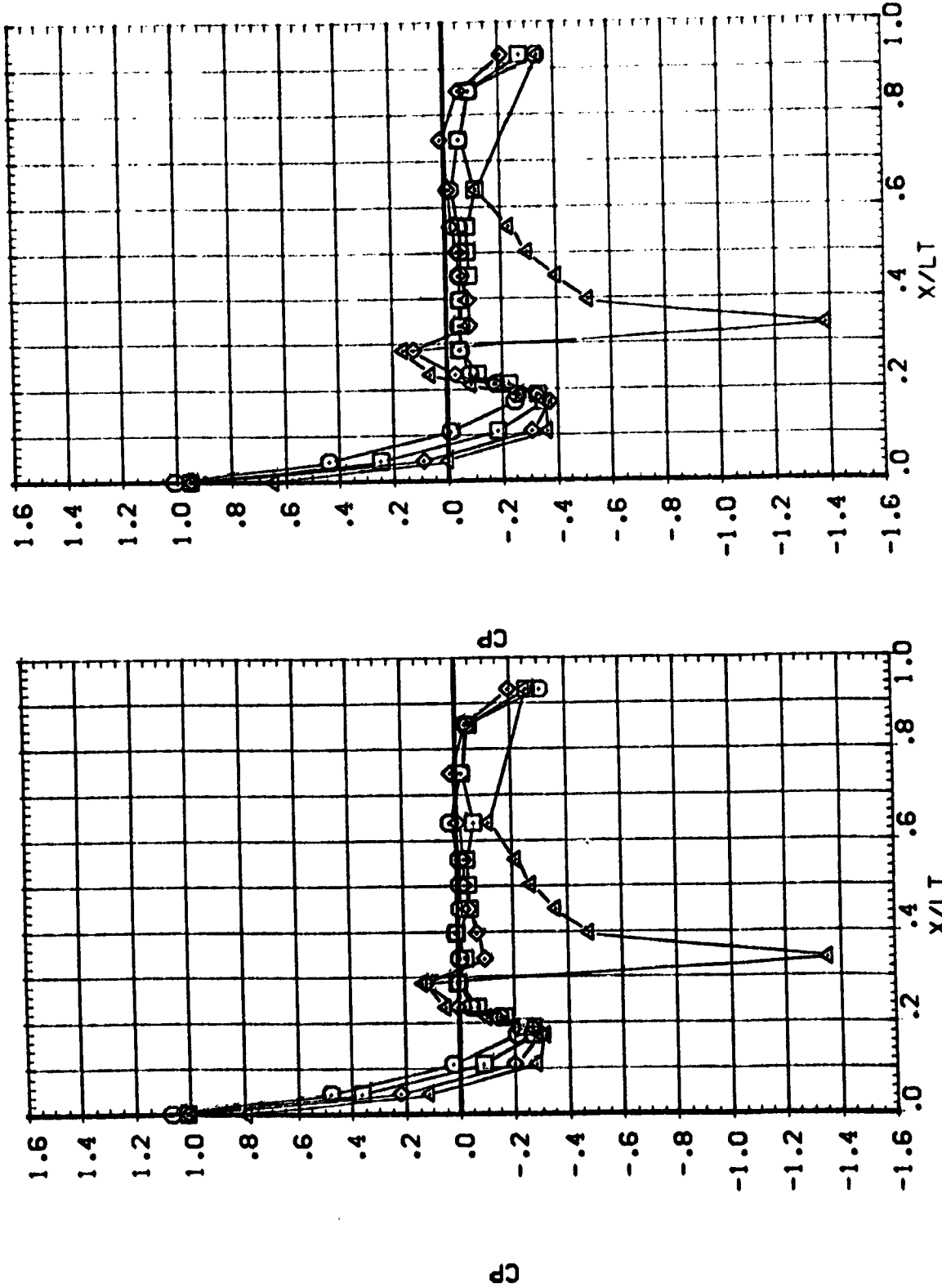
SYMBOL
○ □ ◇ △

PHI
.000
30.000
60.000
90.000

BETAT
4.100
8.190

MACH
.600

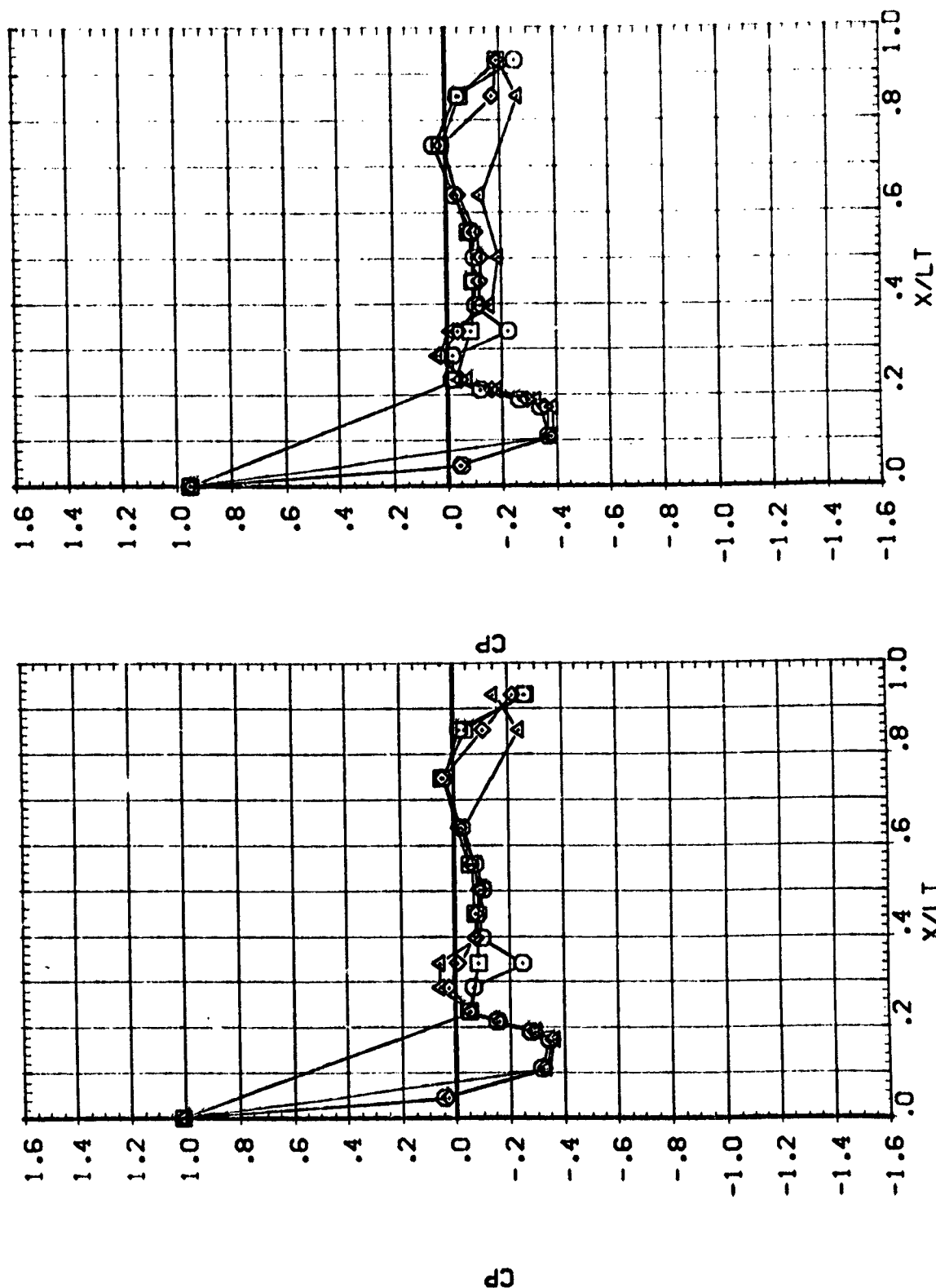
PARAMETRIC VALUES
ALPHA-T 8.000
R-ORDER .000
R-OF-FLR .000
ORBITAL ELEVON .500
ELEVON .000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 11-707 1A9 02A + S3 + T9 EXTERNAL TANK (RBMT11)

SYMBOL	PHI	BETAT	MACH	PARAMETRIC VALUES
○	120.000	4.100	.600	ALPHAT
□	35.000	8.150		RJDDER
◇	50.000			RJDFLR
△	165.000			8.000
				.000
				.000
				.000





AMES 11-707 1A9 02A + S3 + T9 EXTERNAL TANK (RBMT11)

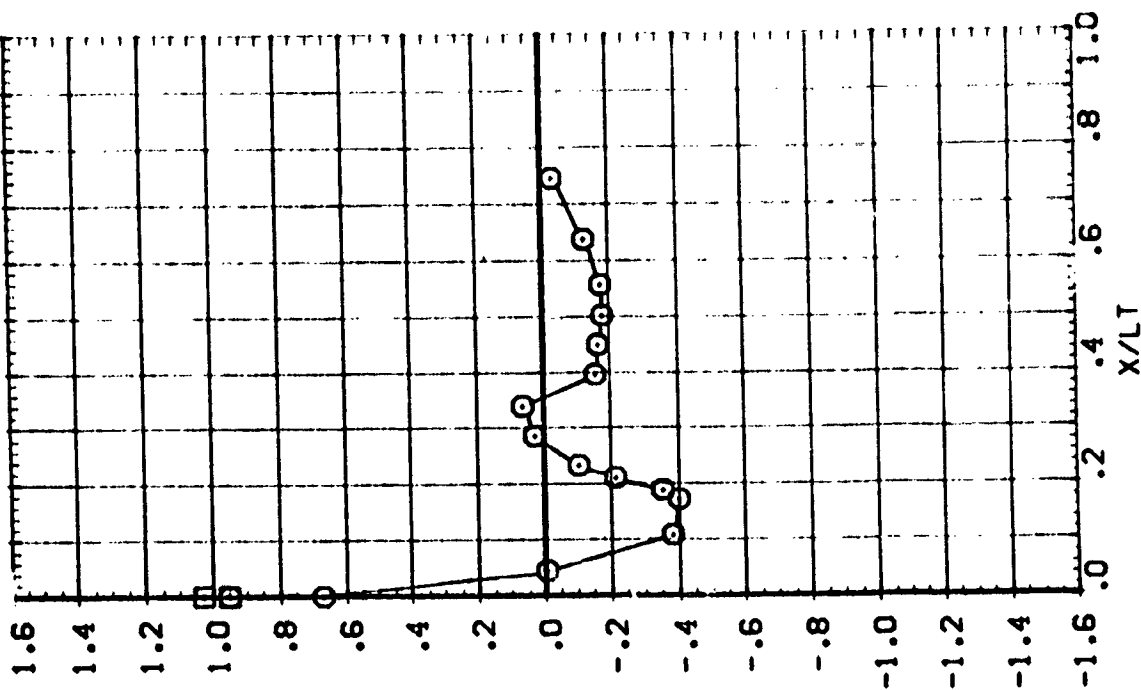
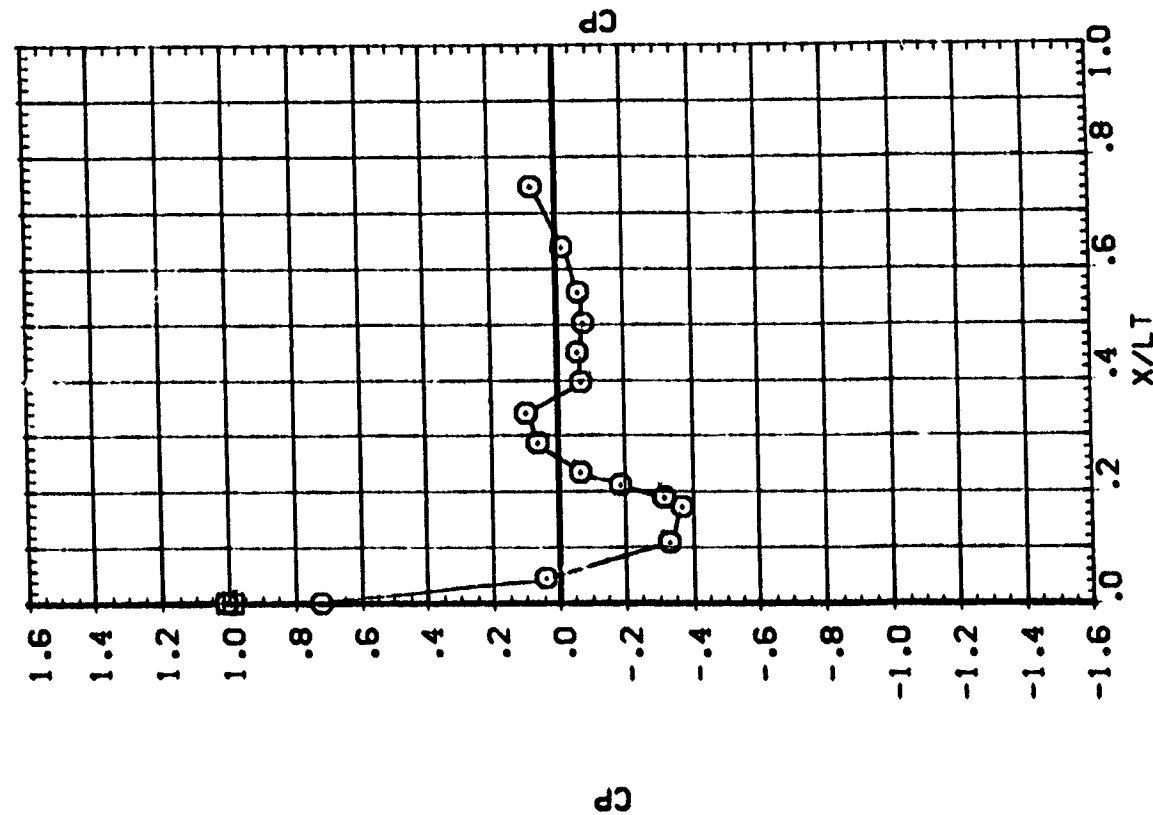
SYMBOL
□

PHI
180.000
270.000

BETAT
4.100
8.190

MACH
.500

PARAMETRIC VALUES
ALPHAT 8.000 ORBINC .500
RJOER .000 ELEVEN .000
RJOFLR .000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES



AMES 11-707 1A9 02A + S3 + T9 EXTERNAL TANK (RBMT11)

PH: .000 .000 .000 .000 .000 .000 .000 .000 .000 .000

BETAT -4.060 2.080

MACH .903

PARAMETRIC VALUES

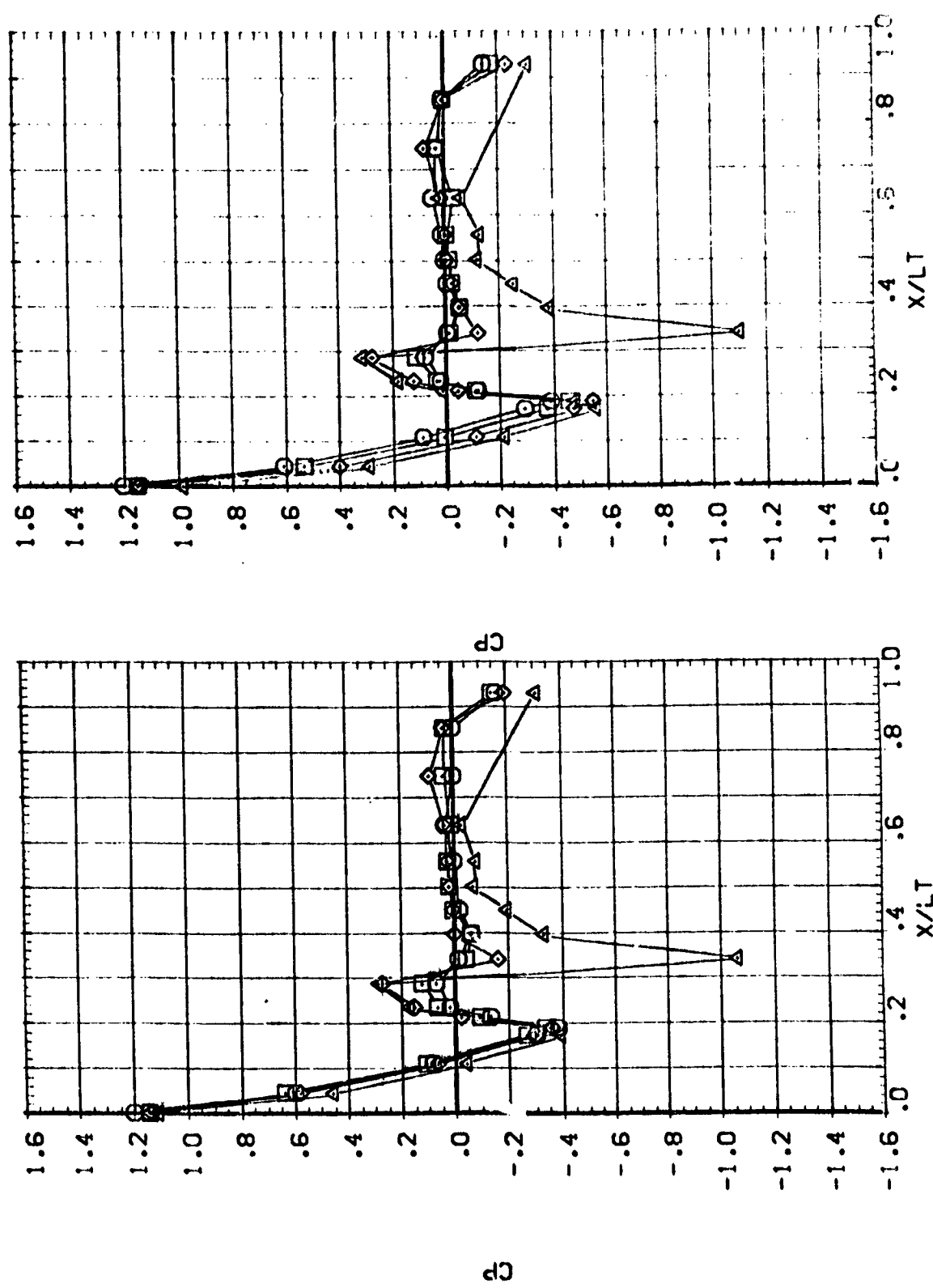
ALPHAT 3.000 CRBINC .500

RJDER .000 ELEVON .000

RJDER .000

SYMBOL

○ □ ◇ △



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES



(RBMT11)

AMES 11-707 IA9 02A + S3 + T9 EXTERNAL TANK

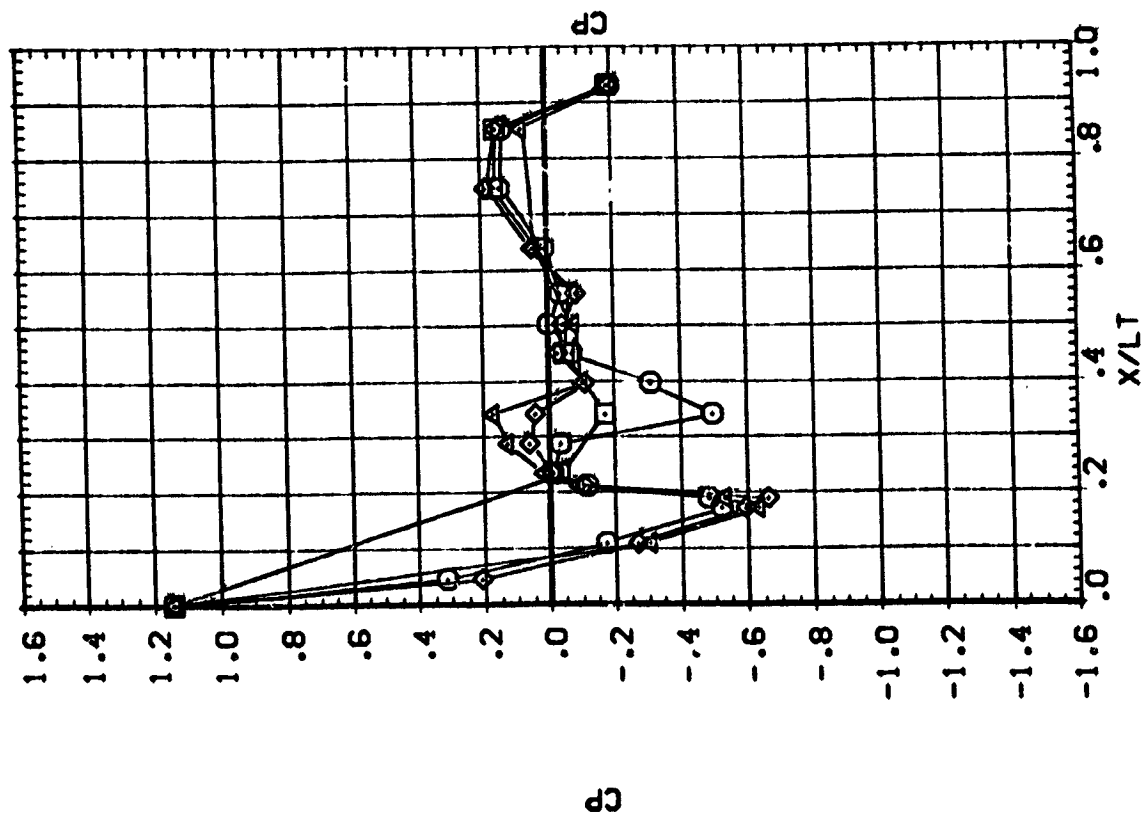
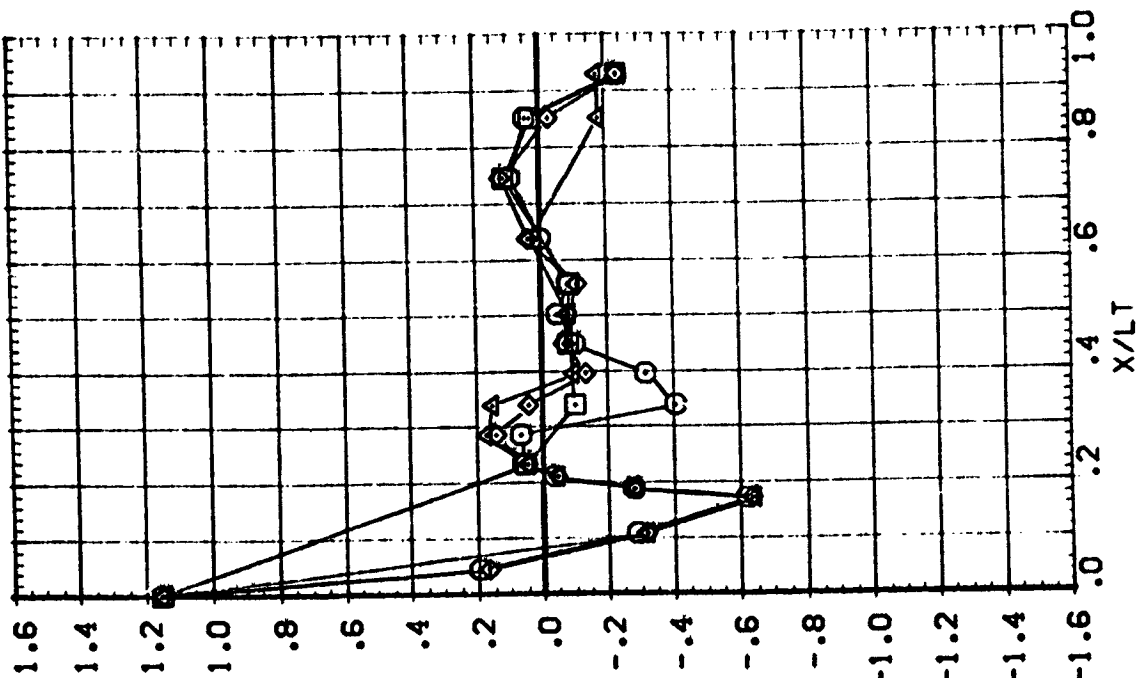
SYMBOL
○ □ ◇ △

PHI
120.000
135.000
150.000
165.000

BETAT
-4.050
2.080

MACH
.903

PARAMETRIC VALUES
ALPHAT 8.000 ORBINC .500
RUDDER .000 ELEVON .000
RUOFLR .000



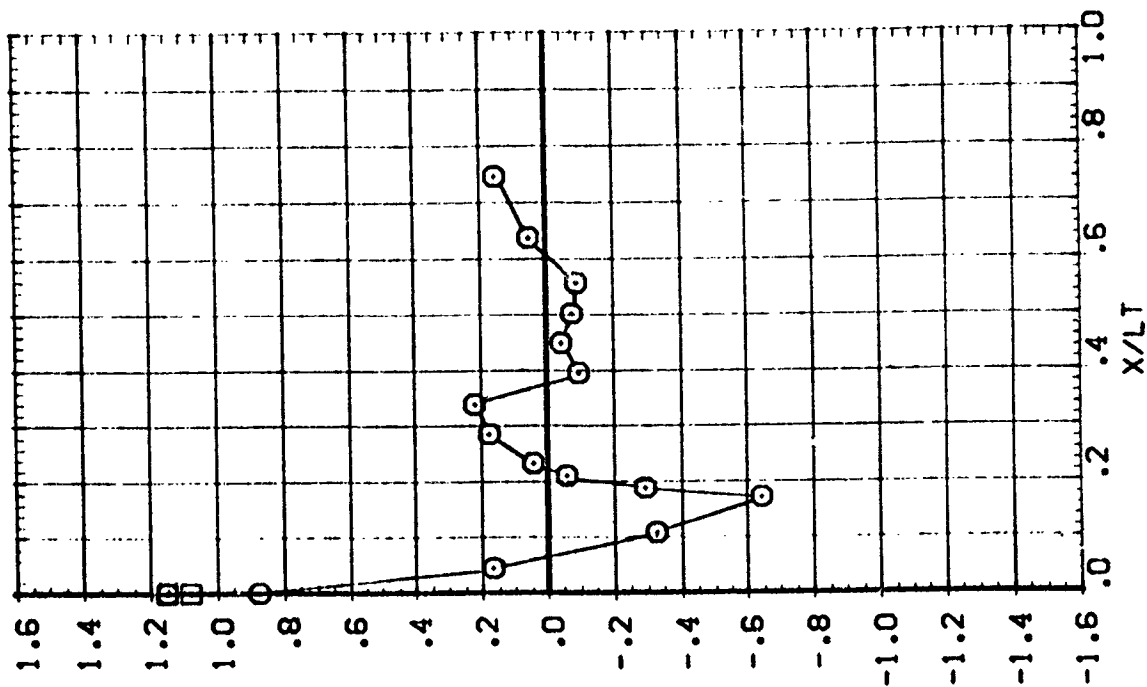
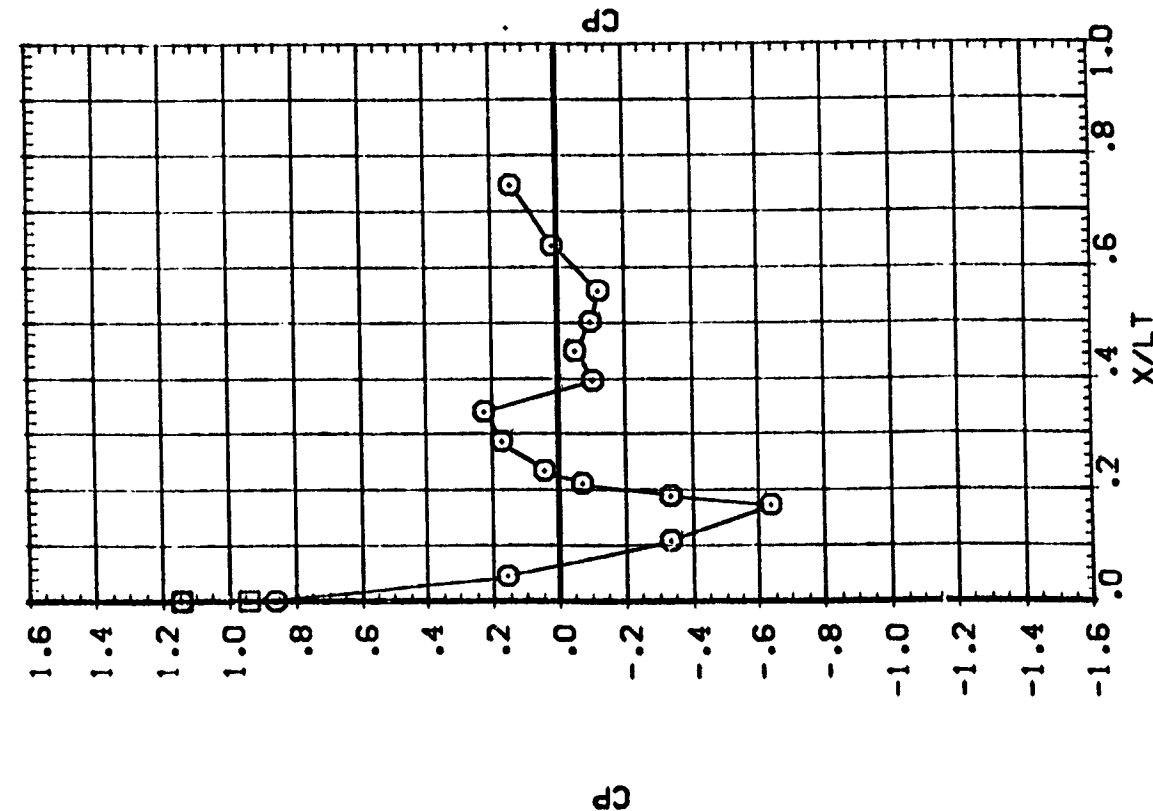
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES



AMSL

AMES 11-707 1A9 02A + S3 + T9 EXTERNAL TANK (RBMT11)

SYMBOL	PHI	BETAT	MACH	ALPHAT	PARAMETRIC VALUES
○	180.000	-4.060	.903	RUDDER	8.000 0RB:NC .500
□	270.000	2.080		RUDFLR	.000 ELEVON .000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES



AMES 11-707 1A9 02A + S3 + T9 EXTERNAL TANK (RBMT11)

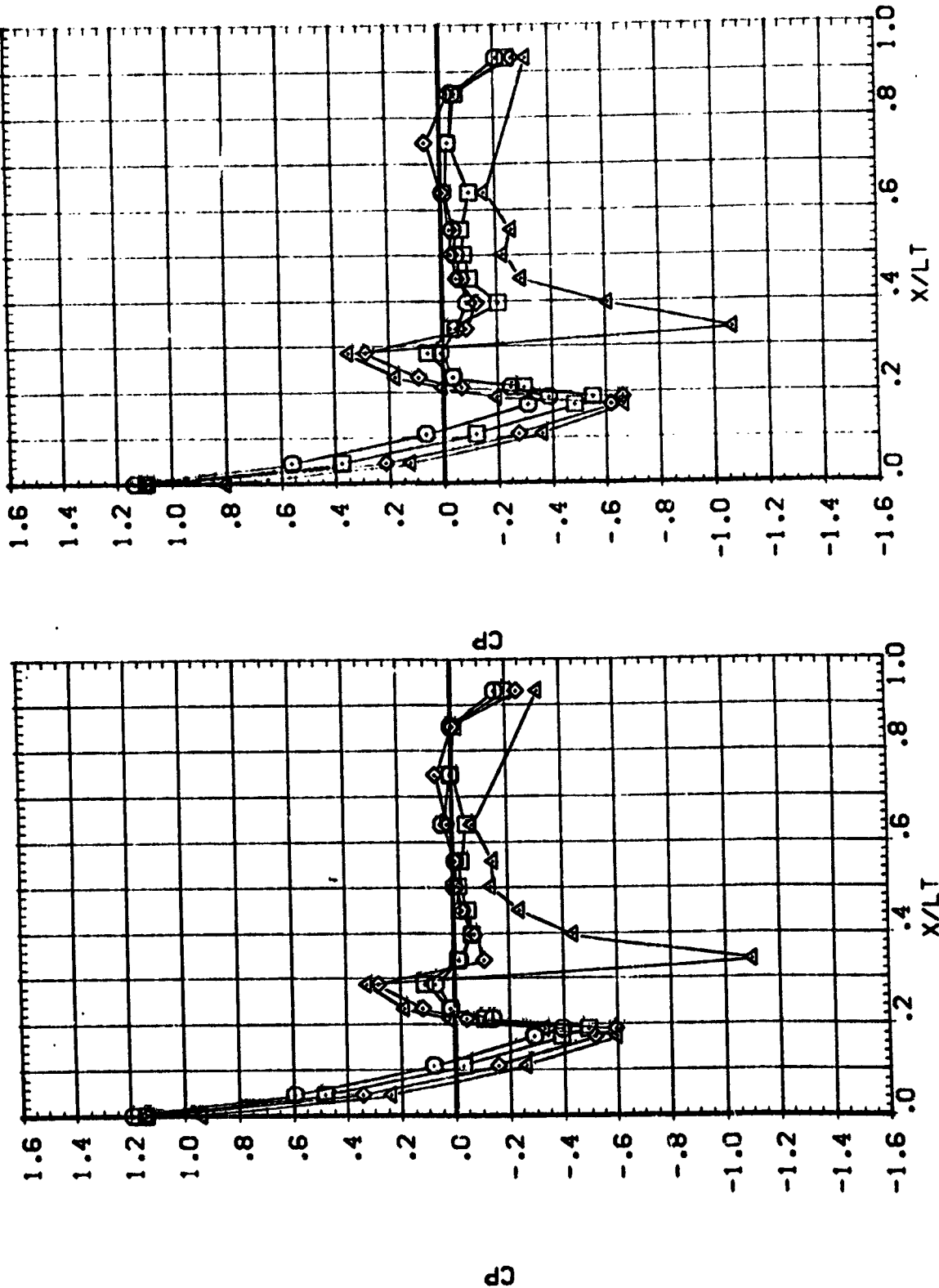
SYMBOL
□
◇
△

PHI
.000
30.000
60.000
90.000

BETAT
4.150
8.280

MACH
.900

PARAMETRIC VALUES
ALPHAT 8.000 DRBINC .500
RJOER .000 ELEVON .000
RJOFLR .000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES



AMES 11-707 1A9 02A + S3 + T9 EXTERNAL TANK (RBMT11)

SYMBOL
 ○ □ ◇ △

PHI
 120.000
 135.000
 150.000
 165.000

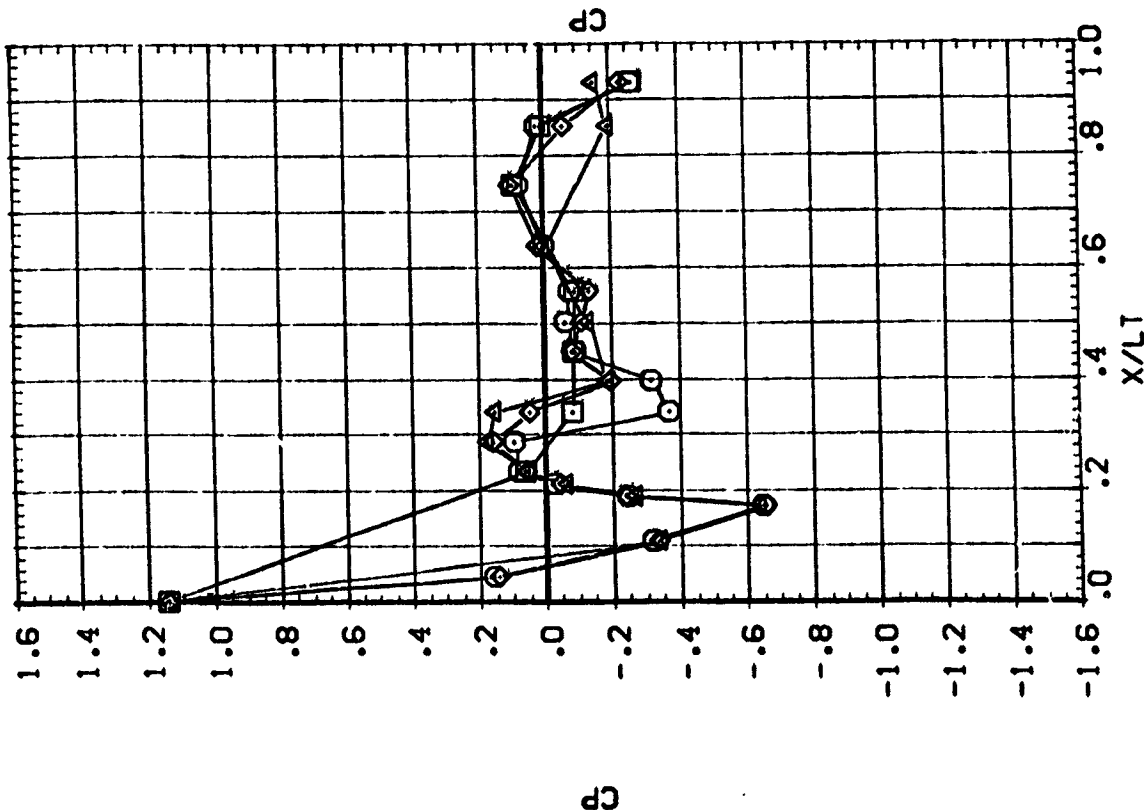
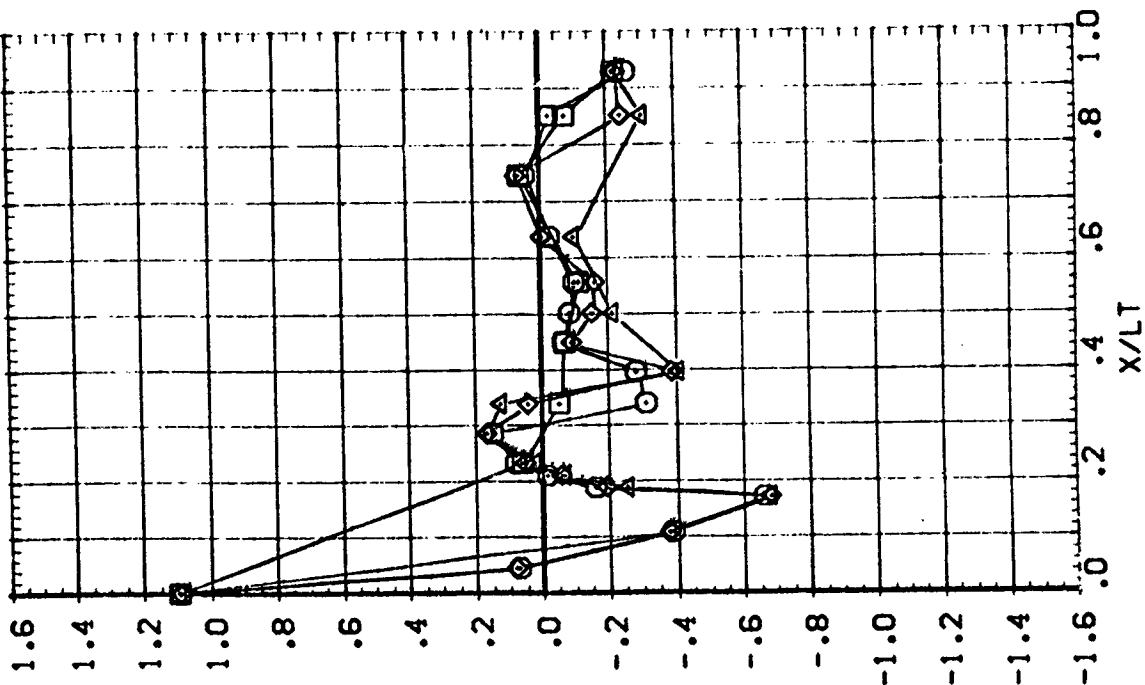
BETA
 4.150
 8.280

MACH
 .900

PARAMETRIC VALUES
 8.000 DRBINC
 .000 ELEVON
 .000

ALPHA
 RUDER
 RUDFLR

.500
 .000



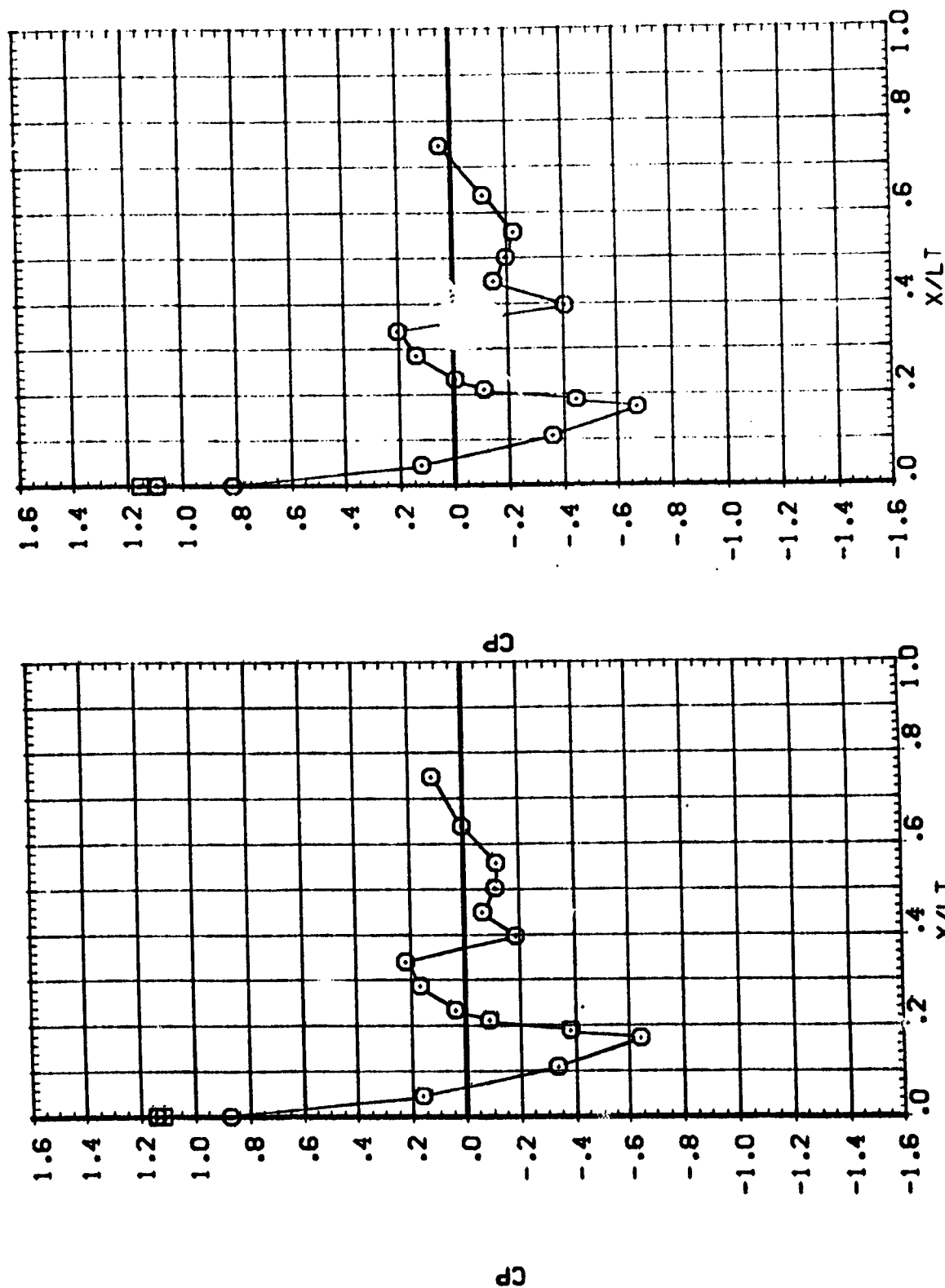
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES



AMES 11-707 1A9 02A + S3 + T9 EXTERNAL TANK (RBMT11)

SYMBOL	PHI	BETAT	MACH	ALPHAT	8.000	ORBITC	.500
	180.000	4.150	.900	RUDDER	.000	ELEVON	.000
	270.000	8.280		R2DFLR	.000		

PARAMETRIC VALUES



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 11-707 :A9 02A + S3 + T9 EXTERNAL TANK (RBMT11)

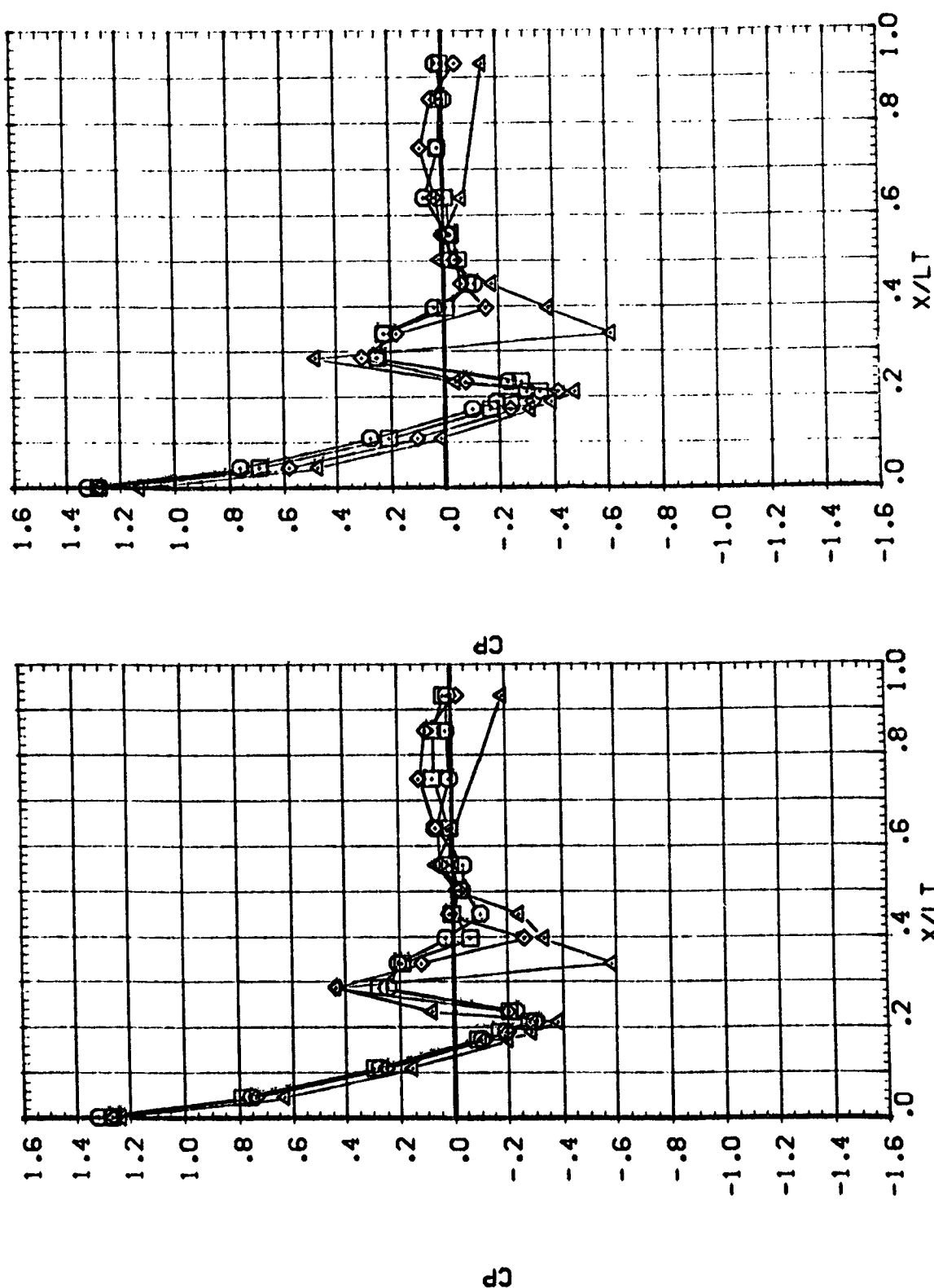
SYMBOL
 ○ □ ◇ △

PHI
 .000
 30.070
 60.000
 90.000

BETAT
 -4.070
 2.090

MACH
 1.102

PARAMETRIC VALUES
 ALPHA 8.000 ORBITAL .500
 RUDDER .000 ELEVON .000
 RUDDER .000



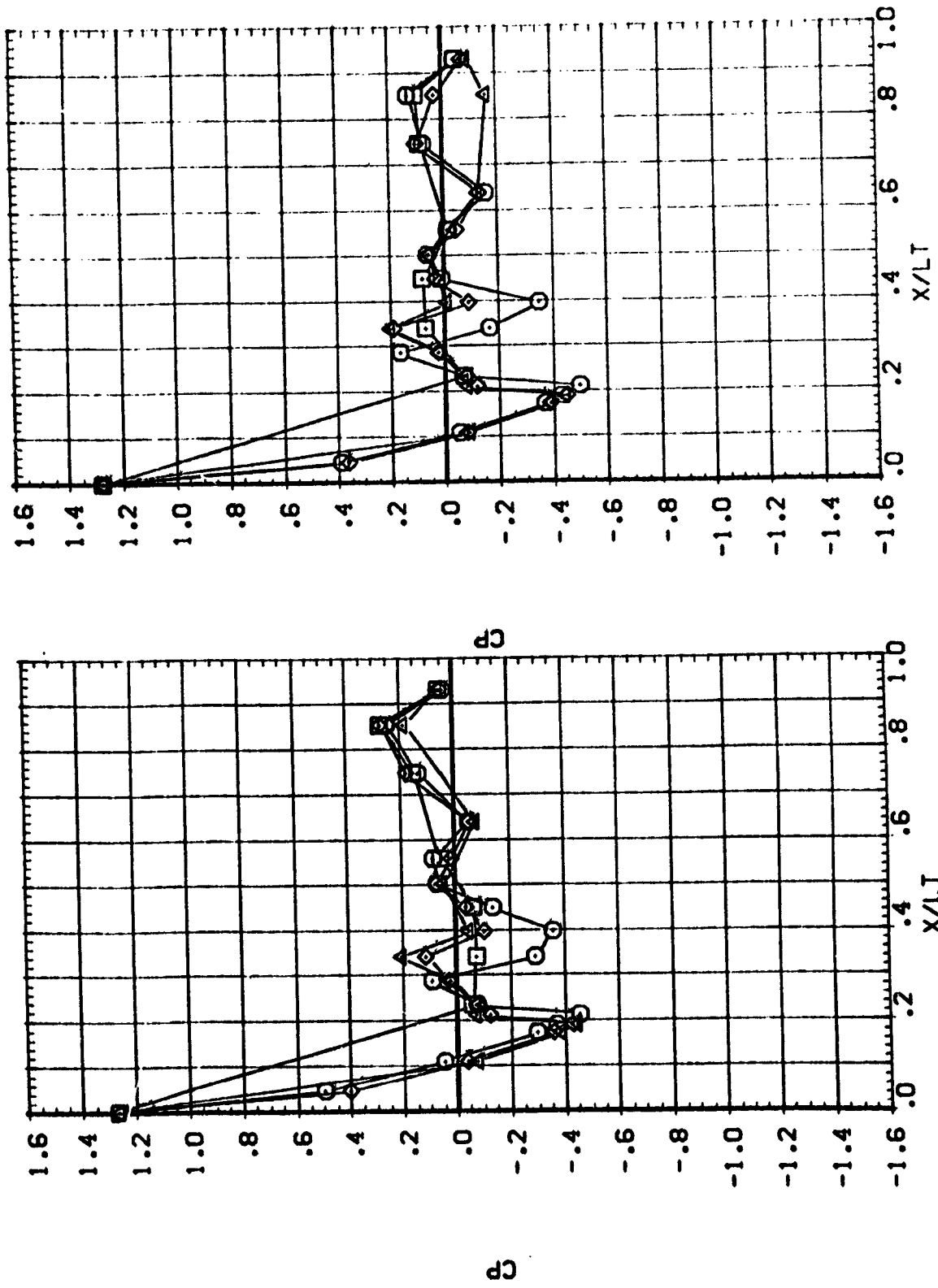
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES



AMES 11-707 1A9 02A + S3 + T9 EXTERNAL TANK (RBMT11)

PHI	BETAT	MACH	ALPHAT	PARAMETRIC VALUES
120.000	-4.070	1.102	8.000	ORBITC .500
135.000	2.090		.000	ELEVON .000
150.000			RJ00LR	
165.000				

SYMBOL O □ ◇ △



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES



AMES 11-707 IA9 02A + S3 + T9 EXTERNAL TANK (RBMT11)

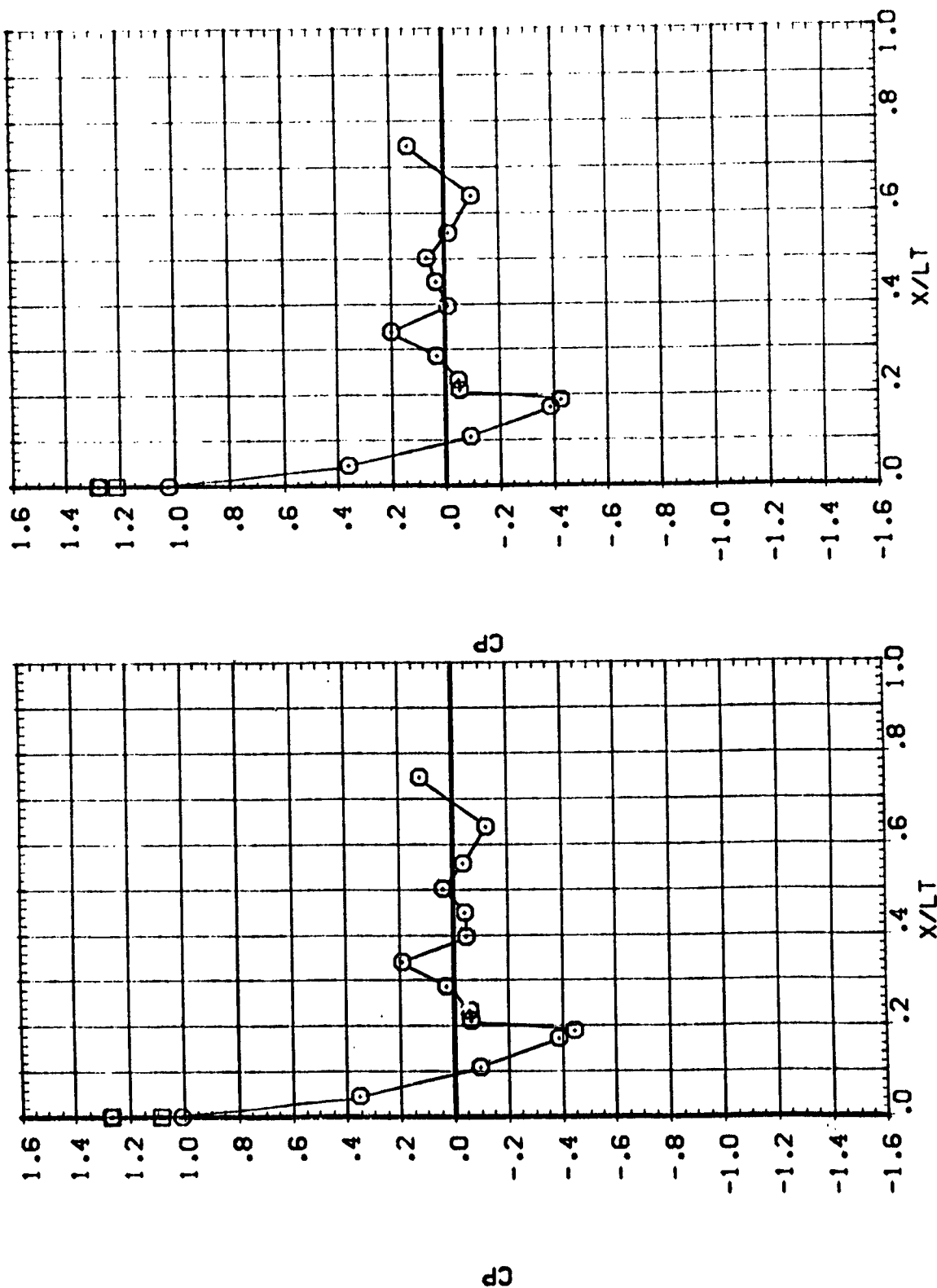
SYNCH
180.000
270.000

PHI
-4.07C
2.09C

BETAT
1.102

MACH

PARAMETRIC VALUES
ALPHAT 8.000 CRBINC .500
RUDDER .000 ELEVON .000
RUDFLR .000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES



AMES 11-707 1A9 02A + S3 + T9 EXTERNAL TANK (RBMT11)

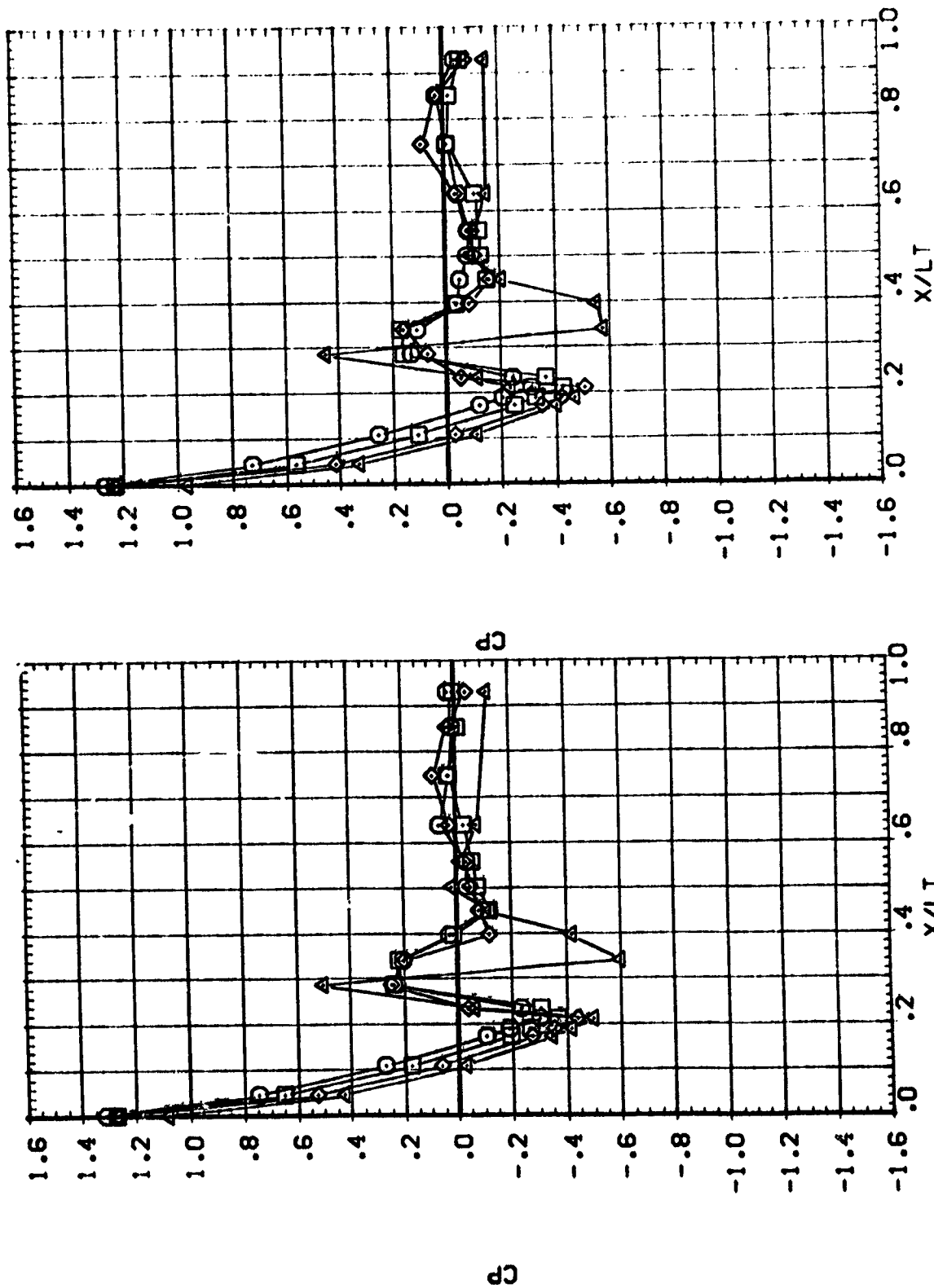
SYMBOL
○
◇
△

PHI
.000
30.000
60.000
90.000

BETAT
4.150
8.300

MACH
1.103

PARAMETRIC VALUES
ALPHA-T 8.000 ORBITC .500
RUDDER .000 ELEVON .000
RUOFLR .000



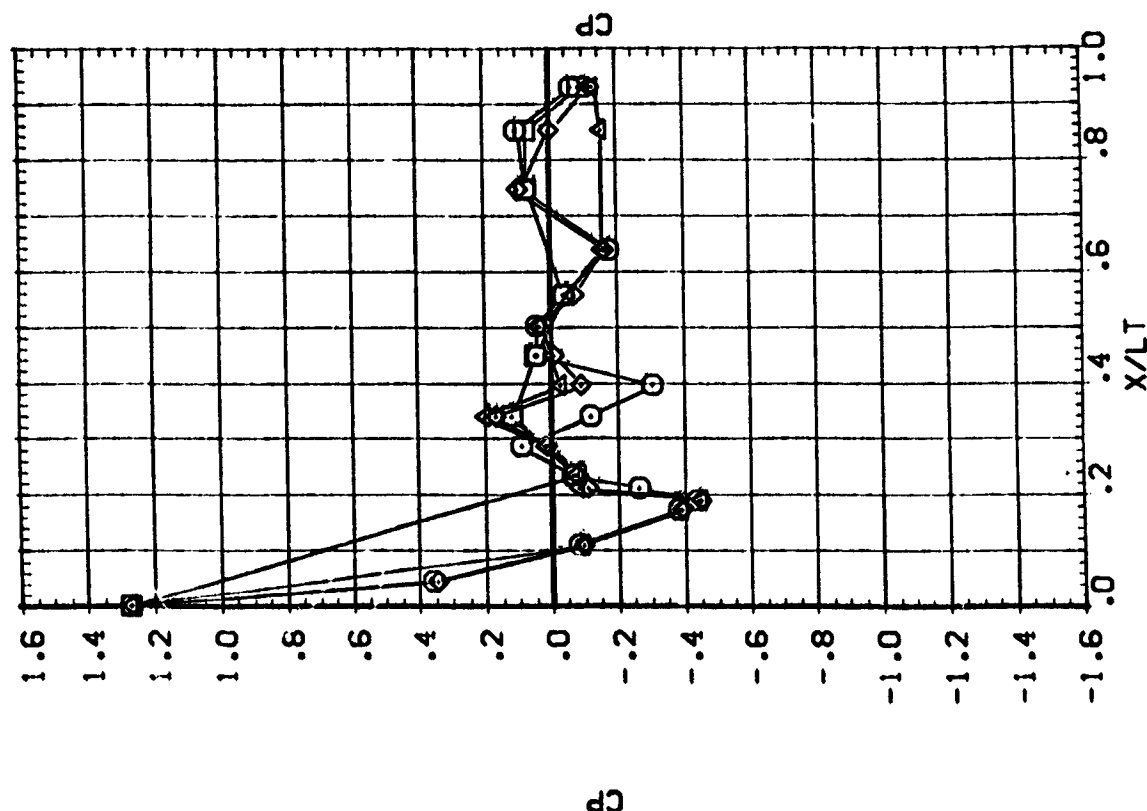
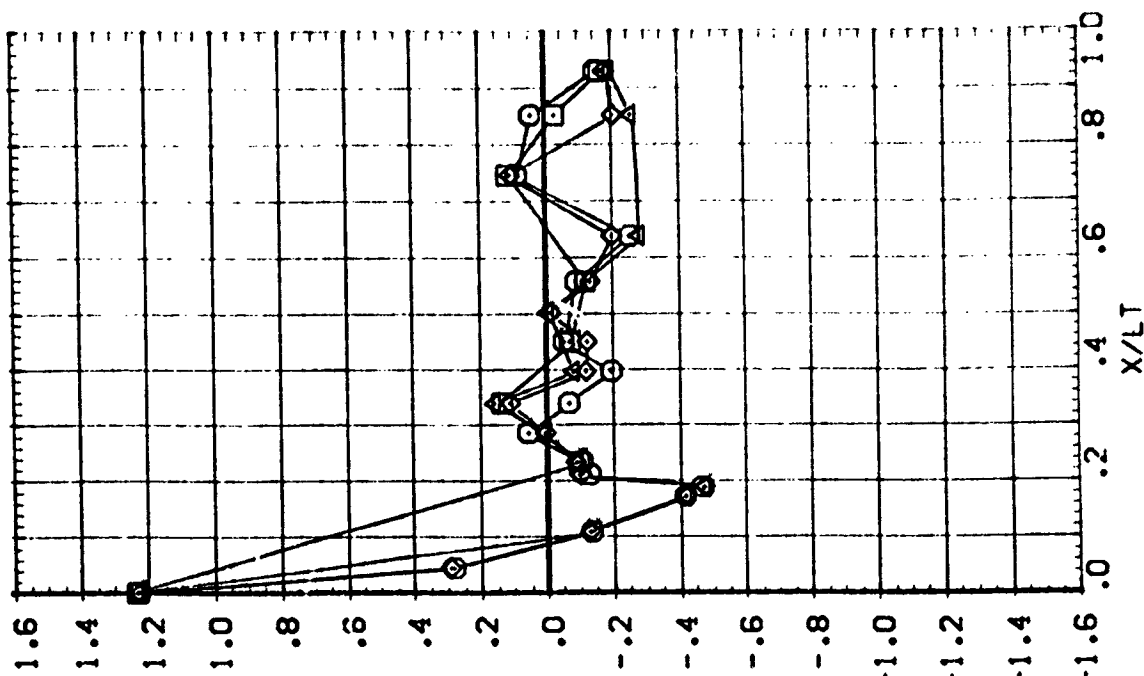
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 11-707 1A9 02A + S3 + T9 EXTERNAL TANK (RBMT11)

PARAMETRIC VALUES
 ALPHA 8.000
 RUDER .000
 RUDER .000
 DRBINC .500
 ELEVEN .000

PHI BETAT MACH
 120.000 4.150 1.103
 135.000 8.300
 150.000
 165.000

SYMBOL
 ○ □ ◇ △



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

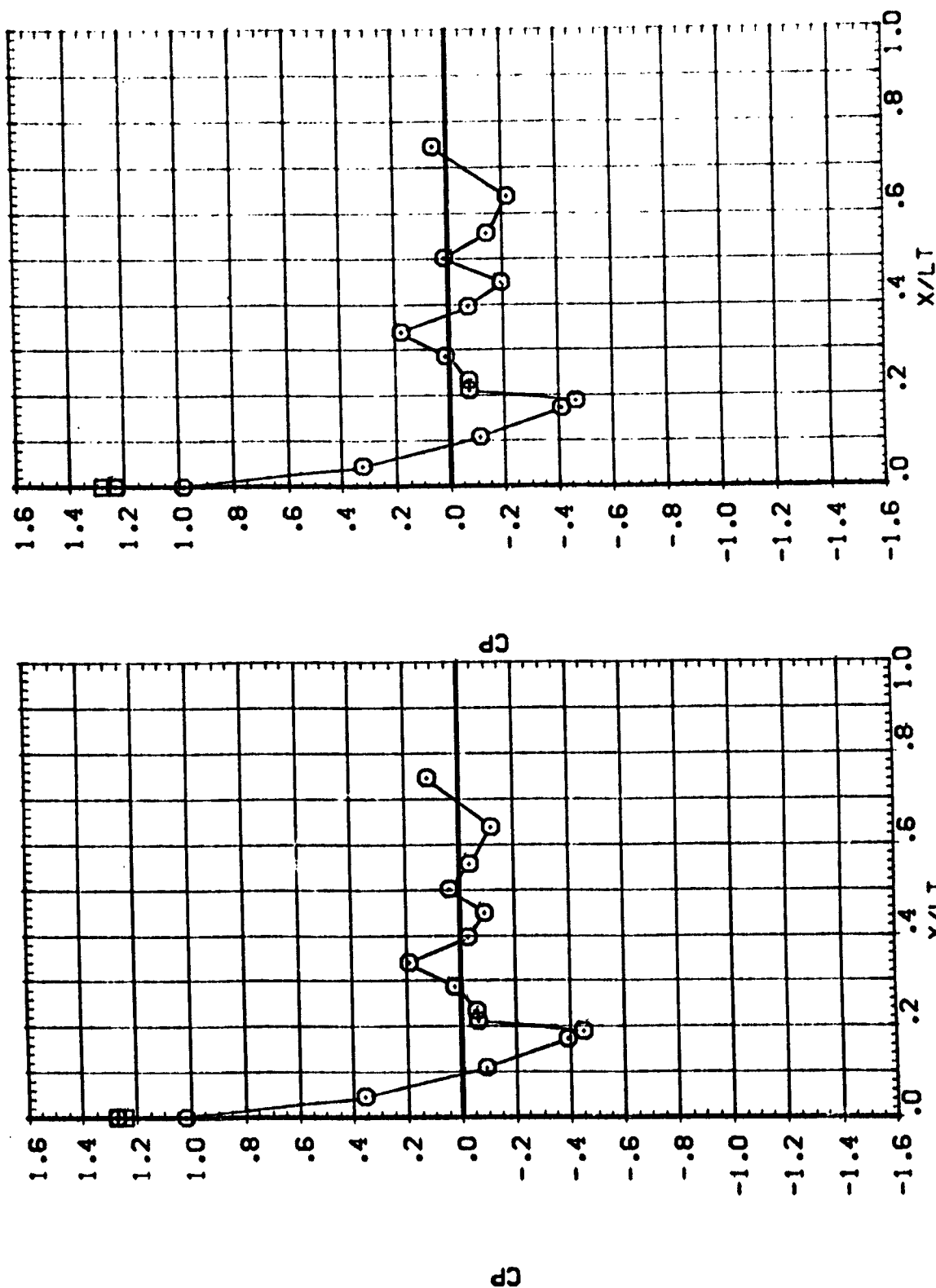


AMES 11-707 IA9 02A + S3 + T9 EXTERNAL TANK (RBMT11)

SYMBOL
□
○

PHI 180.000
270.000
BETAT 4.150
8.300
MACH 1.103

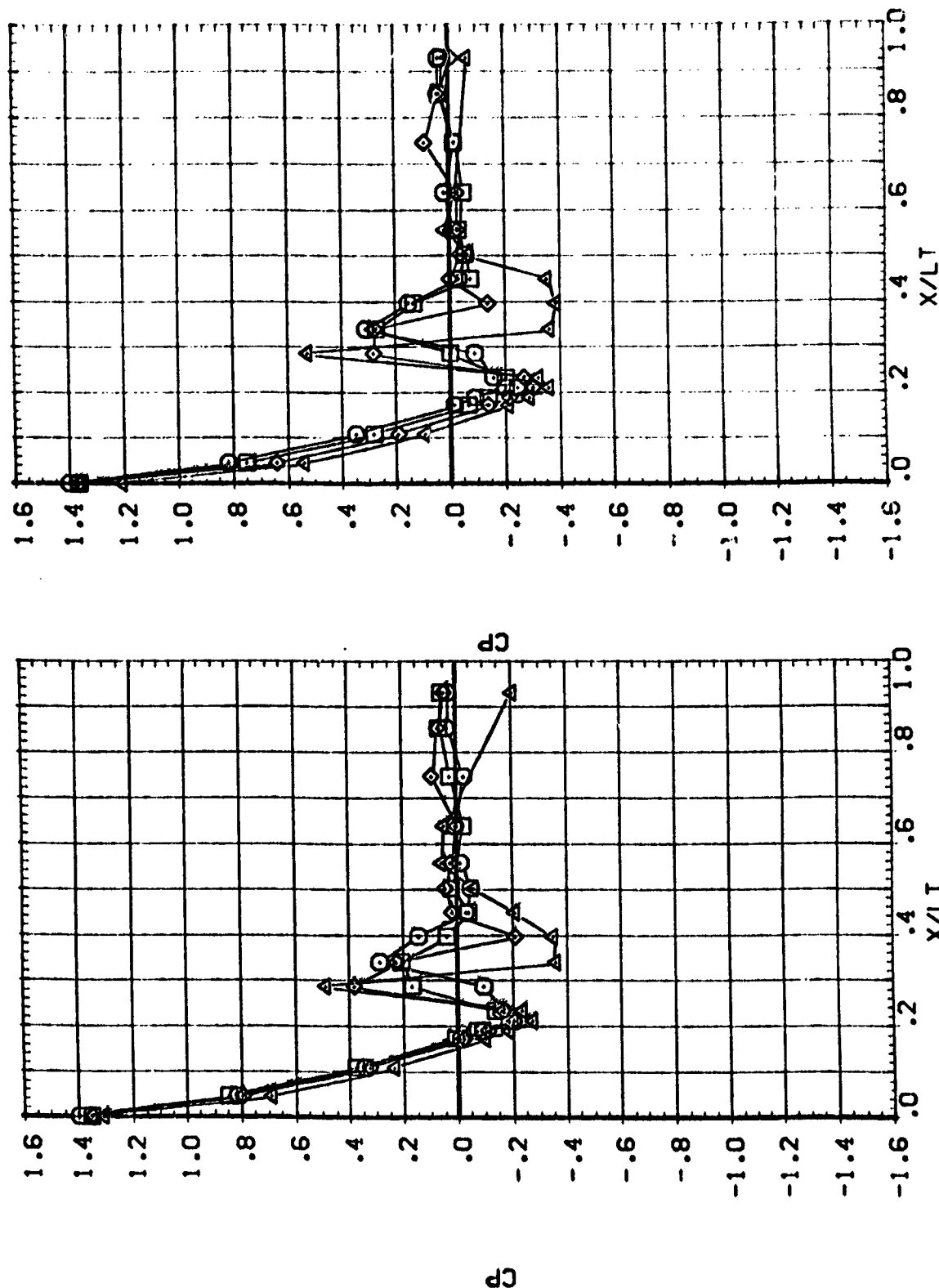
PARAMETRIC VALUES
ALPHAT 8.000 ORBLINC .500
RUDDER .000 ELEVON .000
RUDDLR .000



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 11-707 1A9 02A + S3 + T9 EXTERNAL TANK (RBMT11)

SYMBOL	PHI	BETAT	MACH	ALPHAT	PARAMETRIC VALUES
○	.000	-4.040	1.249	RJDDER	8.000
□	30.000	2.080		RJDFLR	.000
◇	60.000				.000
△	90.000				.000

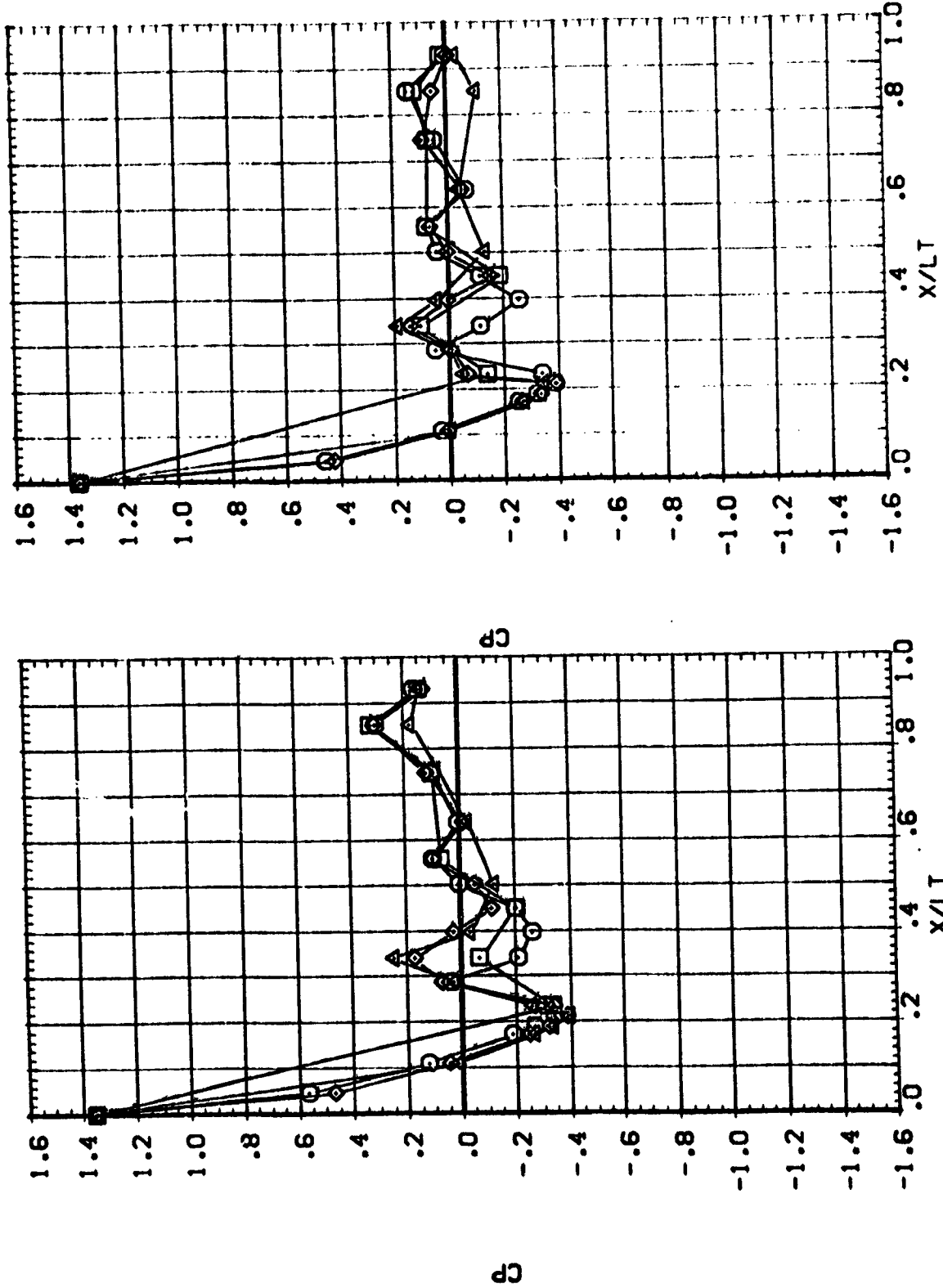


LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES



AMES 11-707 1A9 02A + S3 + T9 EXTERNAL TANK (RBMT11)

SYMBOL	PHI	BETAT	MACH	PARAMETRIC VALUES
○	120.000	-4.040	1.249	ALPHAT 8.000 DRBINC .500
□	135.000	2.080		RUDDER .000 ELEVON .000
◇	150.000			
△	165.000			

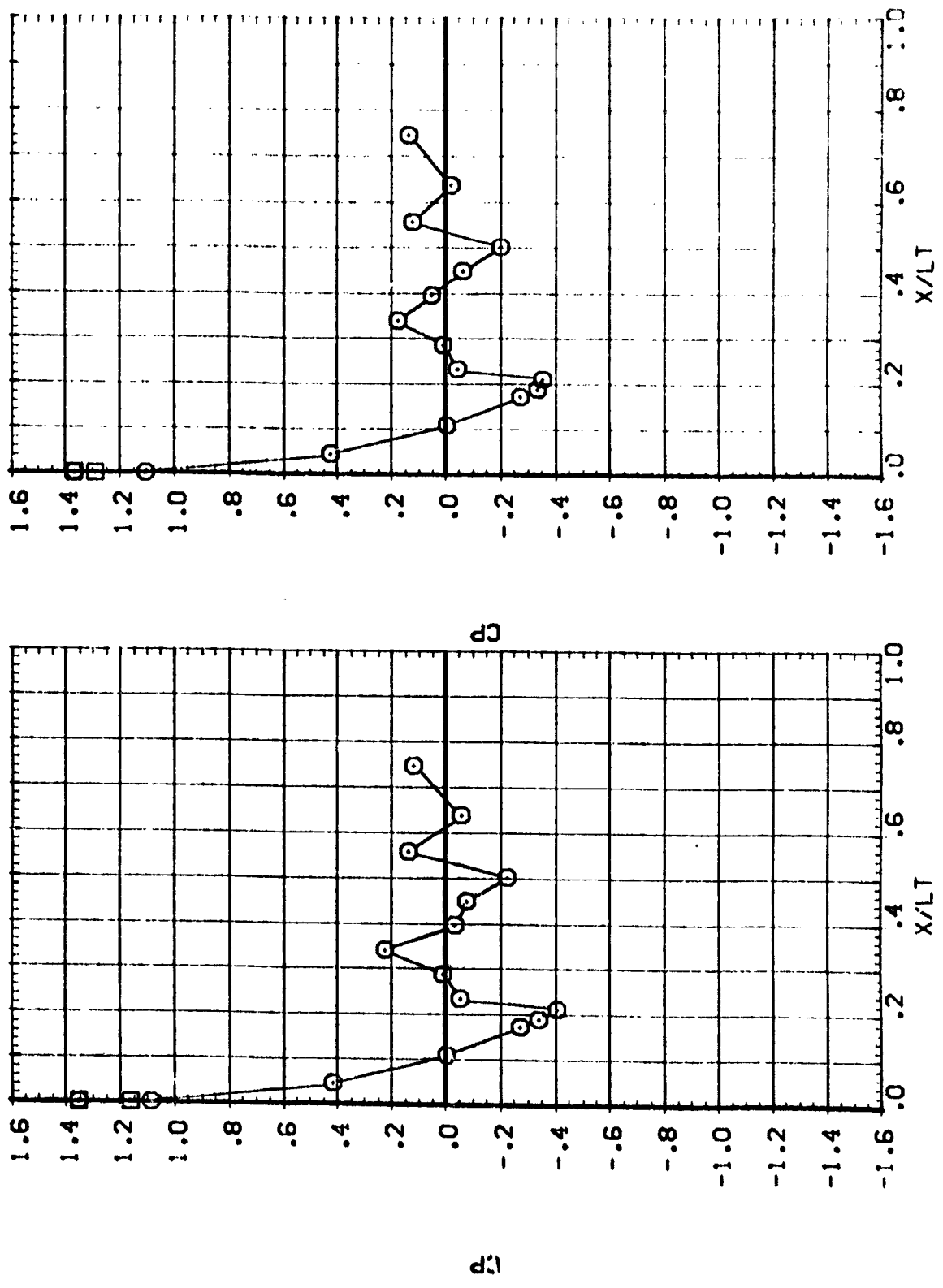


LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES



AMES 11-707 1A9 02A + S3 + T9 EXTERNAL TANK (RBMT11)

SYMBOL	PHI	BETAT	MAC	PARAMETRIC VALUES			
				ALPHAT	8.000	9991NC	.500
OL	180.000	-4.040	1.249	RUDDER	.000	ELEVON	.000
	270.000	2.080		RUDFLR	.000		



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES



AMES 11-707 1A9 02A + S3 + T9 EXTERNAL TANK (RBMT11)

SYMBOL
○ □ ◇ △

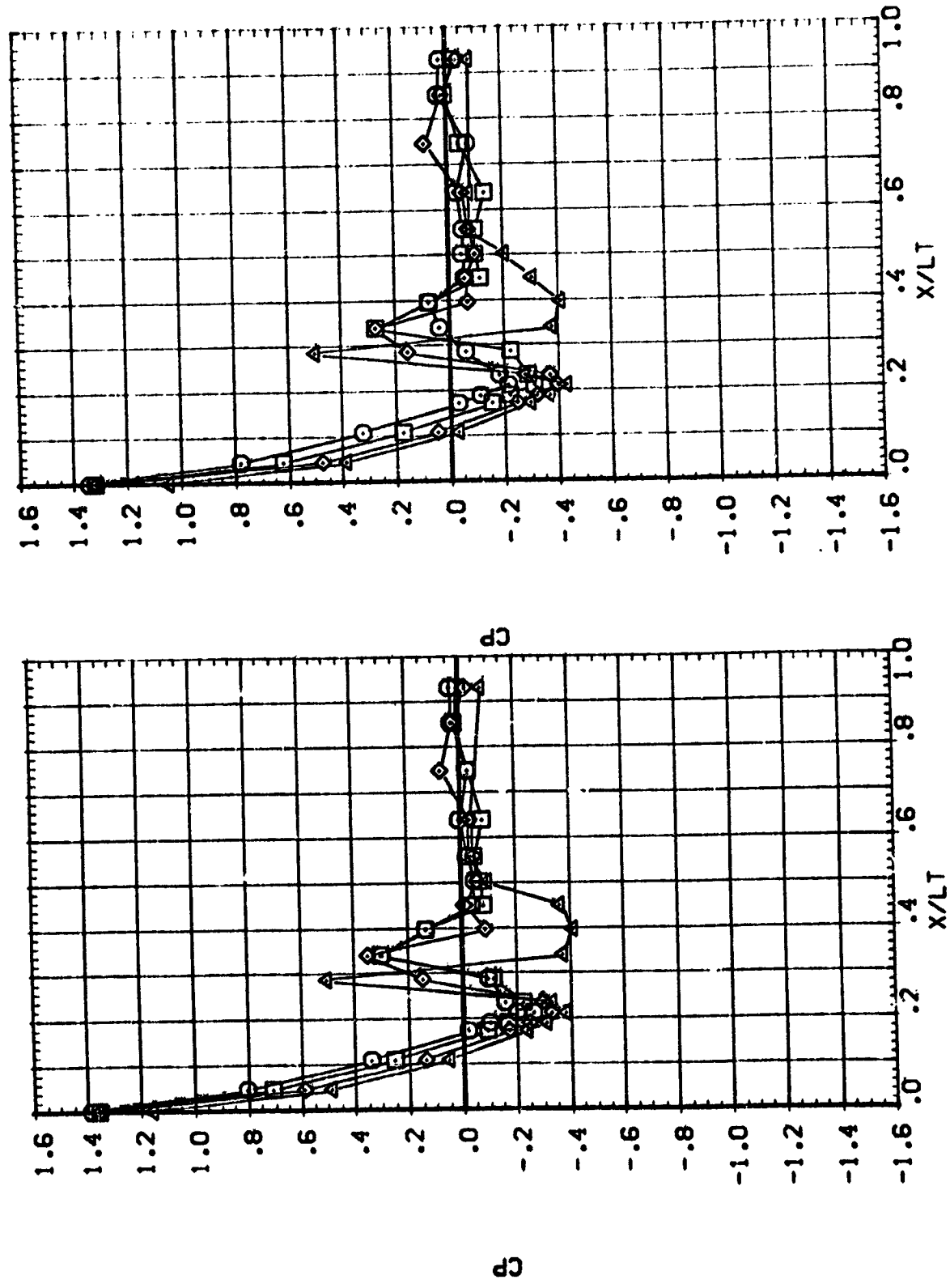
PHI .000
30.000
60.000
90.000

BETAT 4.130
8.250

MACH 1.247

PARAMETRIC VALUES
ALPHA-T 8.000
RUDER .000
RUFLR .000

ORBITC .500
ELEVON .000



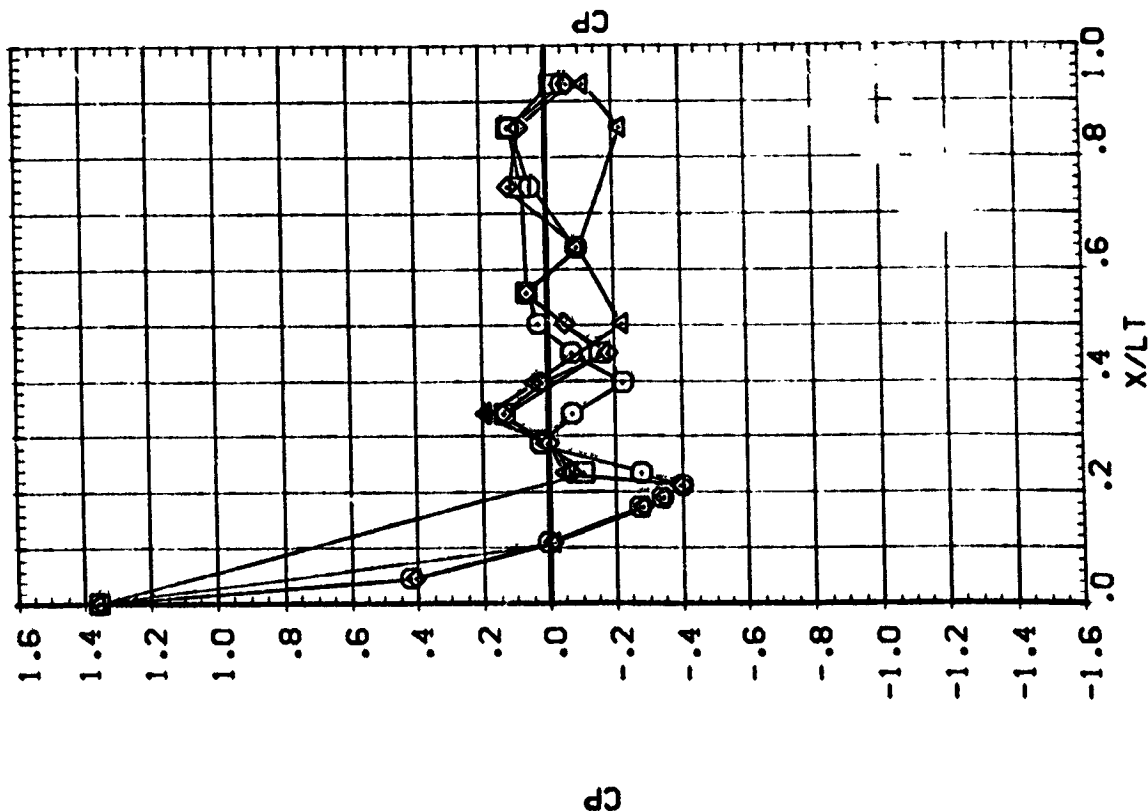
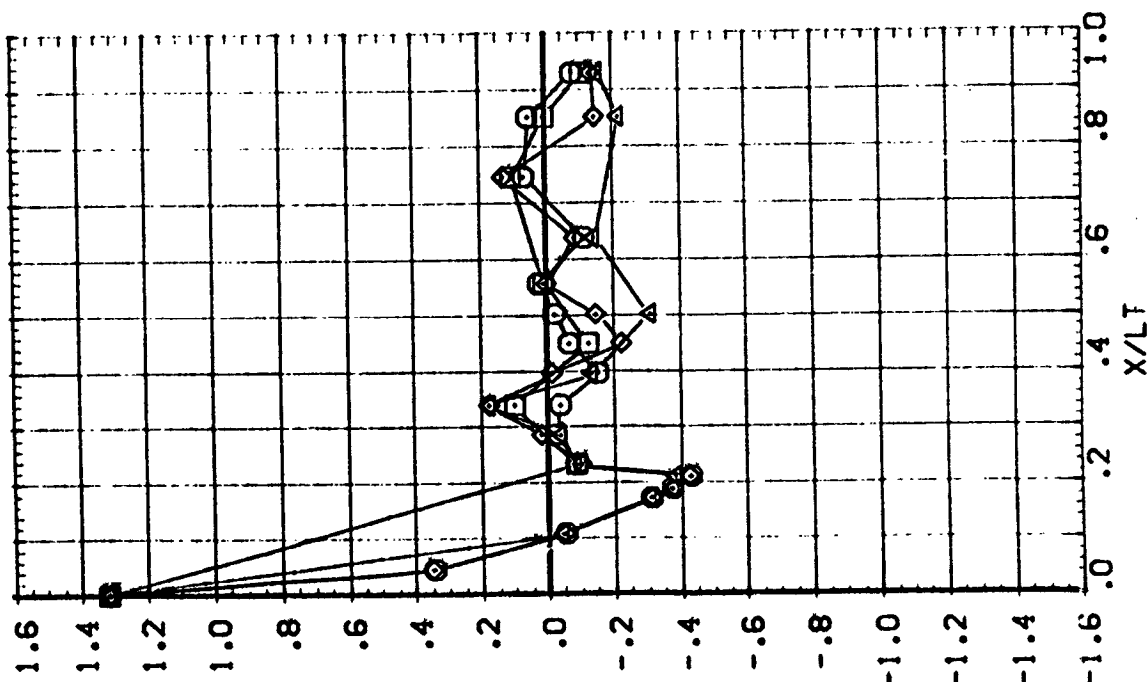
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

AMES 11-707 1A9 02A + S3 + T9 EXTERNAL TANK (RBMT111)

PARAMETRIC VALUES
 ALPHAT 8.000 ORBINC .500
 RJOOR .000 ELEVON .000
 RJOFLR .000

PHI 120.000 MACH 1.247
 135.000 8.25C
 150.000
 165.000

SYMBOL
 □ ◇ △



LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES



(RBM711)

AMES 11-707 IA9 02A +.S3 + T9 EXTERNAL TANK

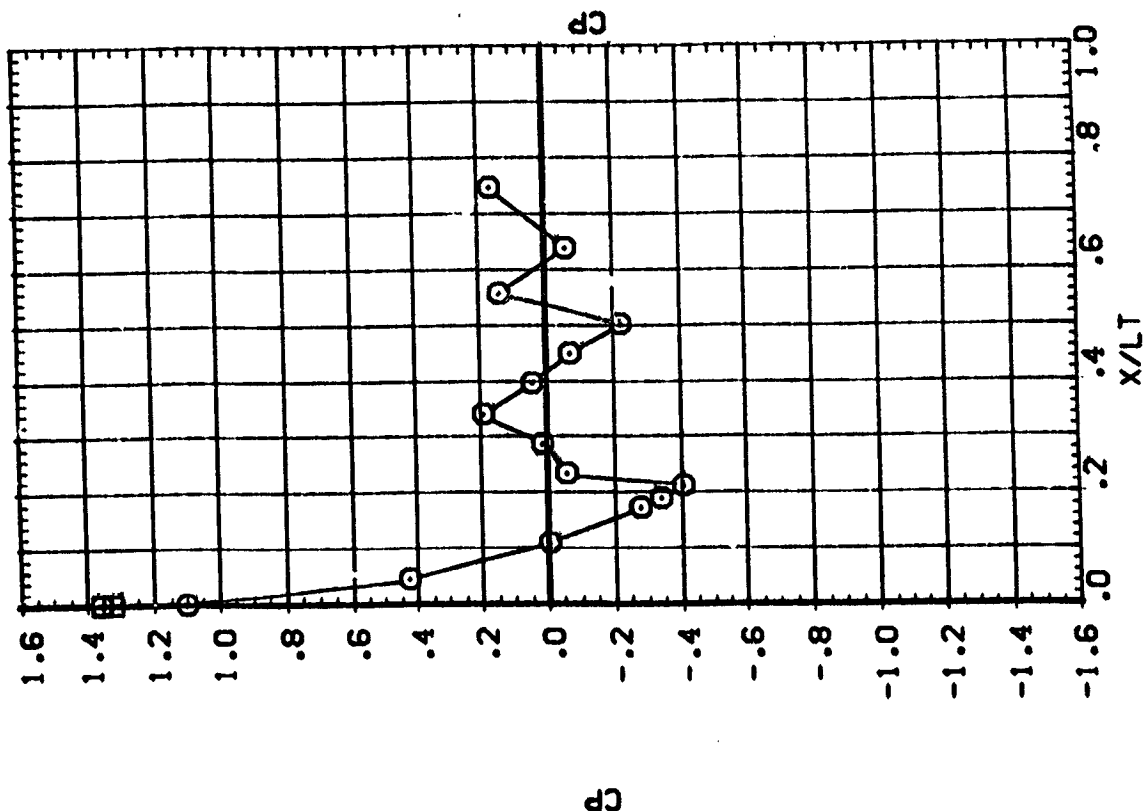
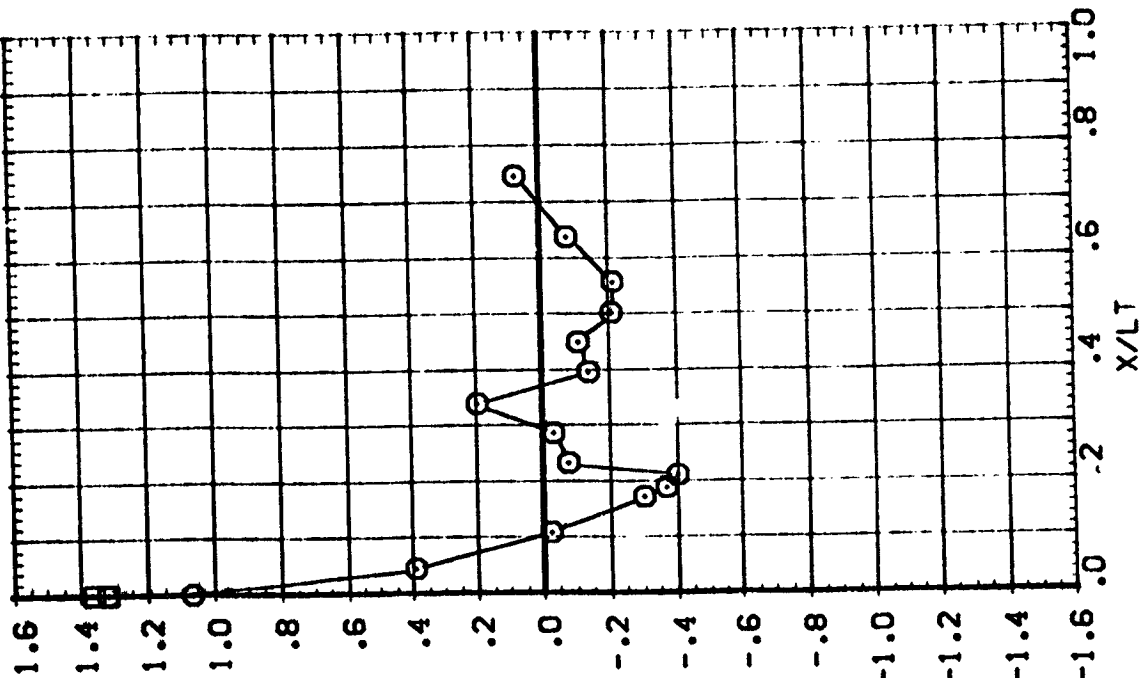
SYMBOL
□

PHI
180.000
270.000

BETAT
4.130
9.250

MACH
1.247

PARAMETRIC VALUES
ALPHAT 8.000 ORBINC .500
RUDDER .000 ELEVON .000
RUOFLR .000



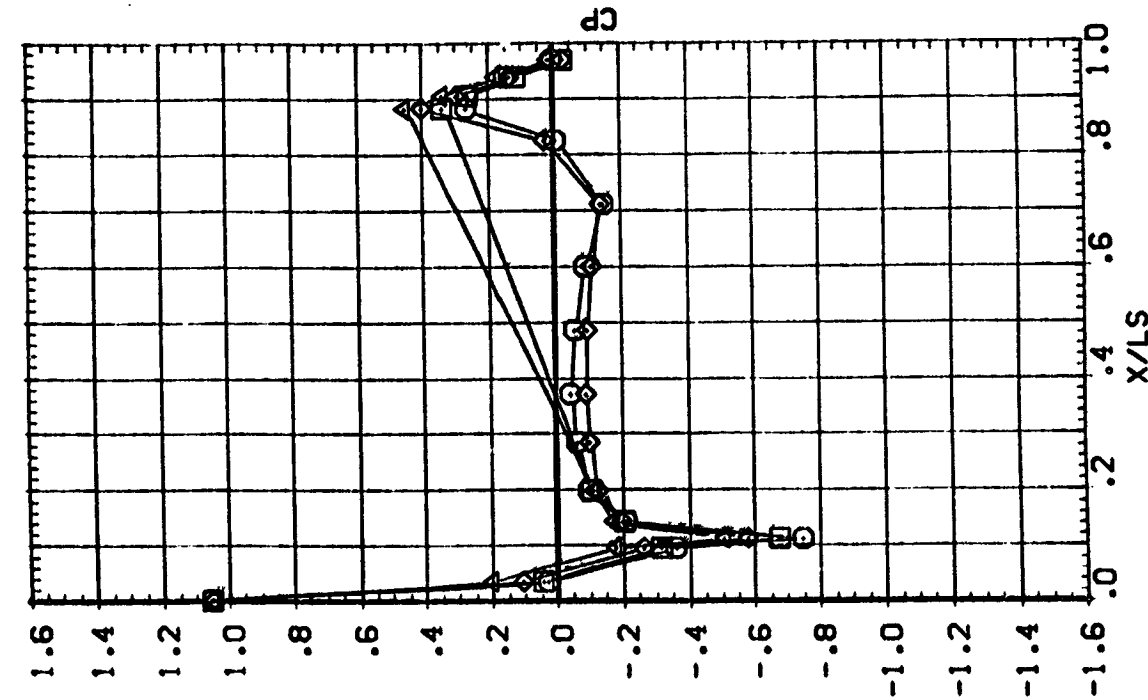
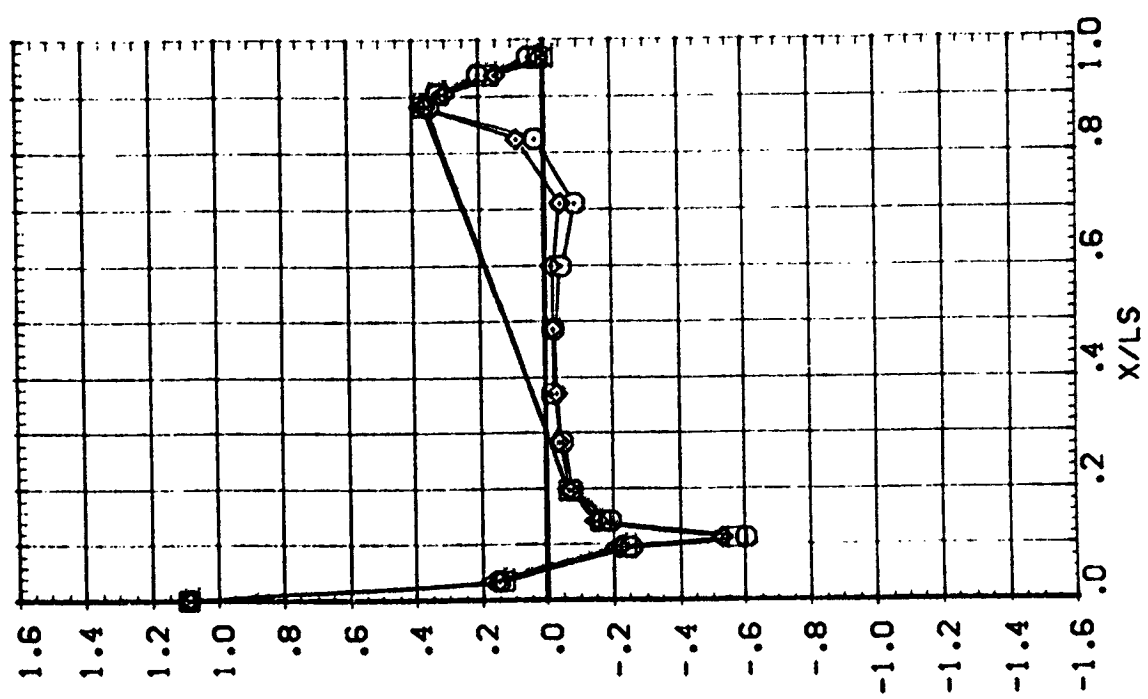
LONGITUDINAL DISTRIBUTION OF EXTERNAL TANK PRESSURES

(RBMS01)

AMES 11-707 1A9 02A + S3 + T9 SRM BOOSTER

PARAMETRIC VALUES
BETAT .000 DRBINC 1.500
RUDDER .000 ELEVON .000
RUDFLR .000

PHI .000 MACH .597
ALPHAT -4.100
45.000
90.000
135.000
SYMBOL
○
□
◇
△



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES



AMES 11-707 1A9 02A + S3 + T9 SRM BOOSTER

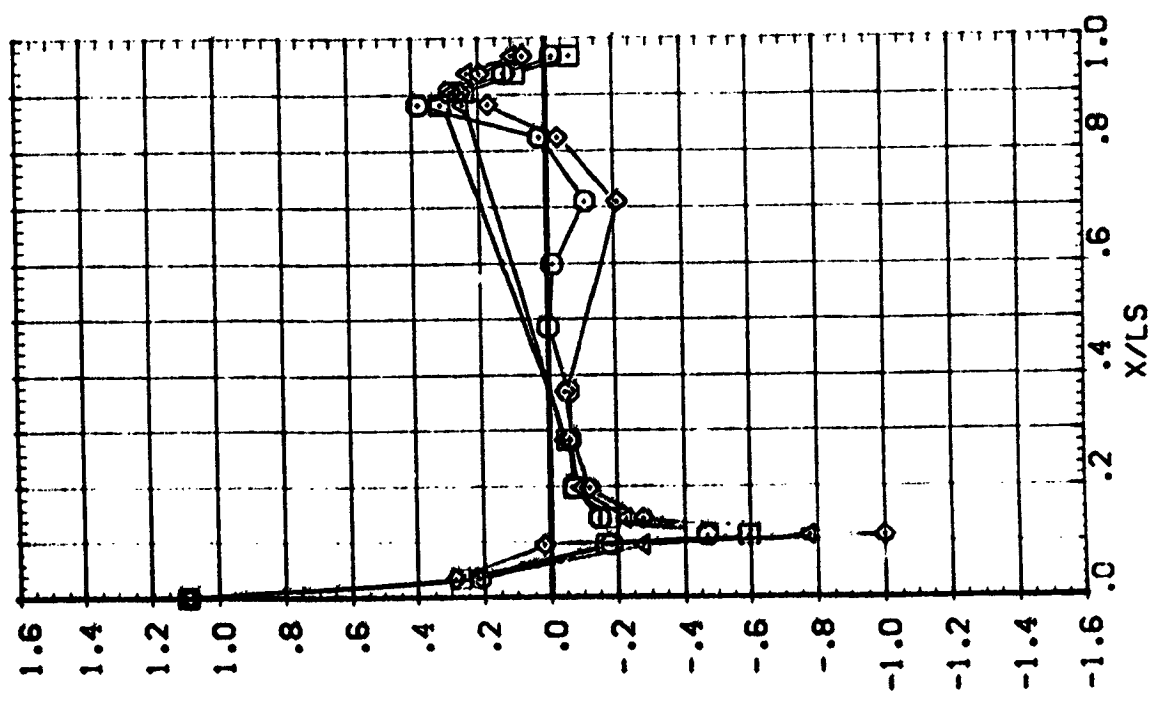
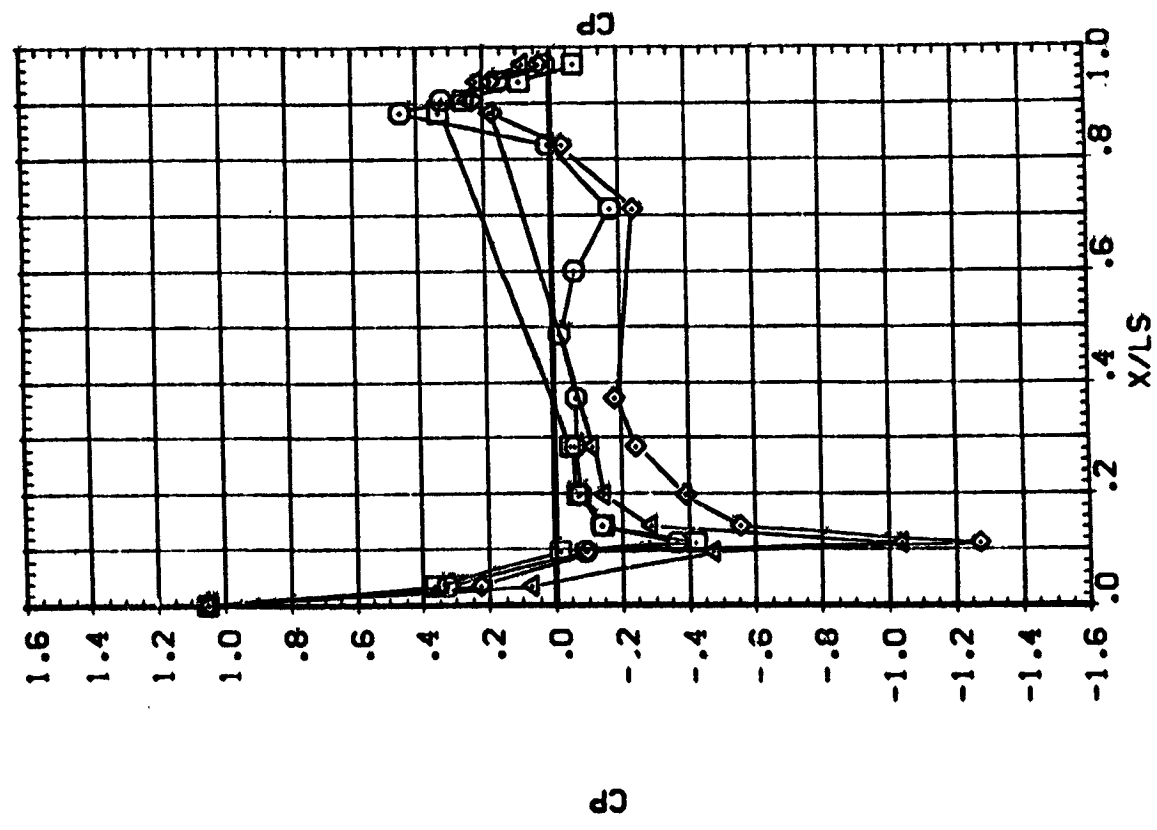
(RBMS01)

SYMBOL
○
□
◇
△

PHI
180.000
225.000
270.000
315.000

ALPHAT MACH
-4.100 .597
-.060

PARAMETRIC VALUES
BETAT .000 ORBINC 1.500
RJOER .000 ELEVON .000
RJOFLR .000



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES



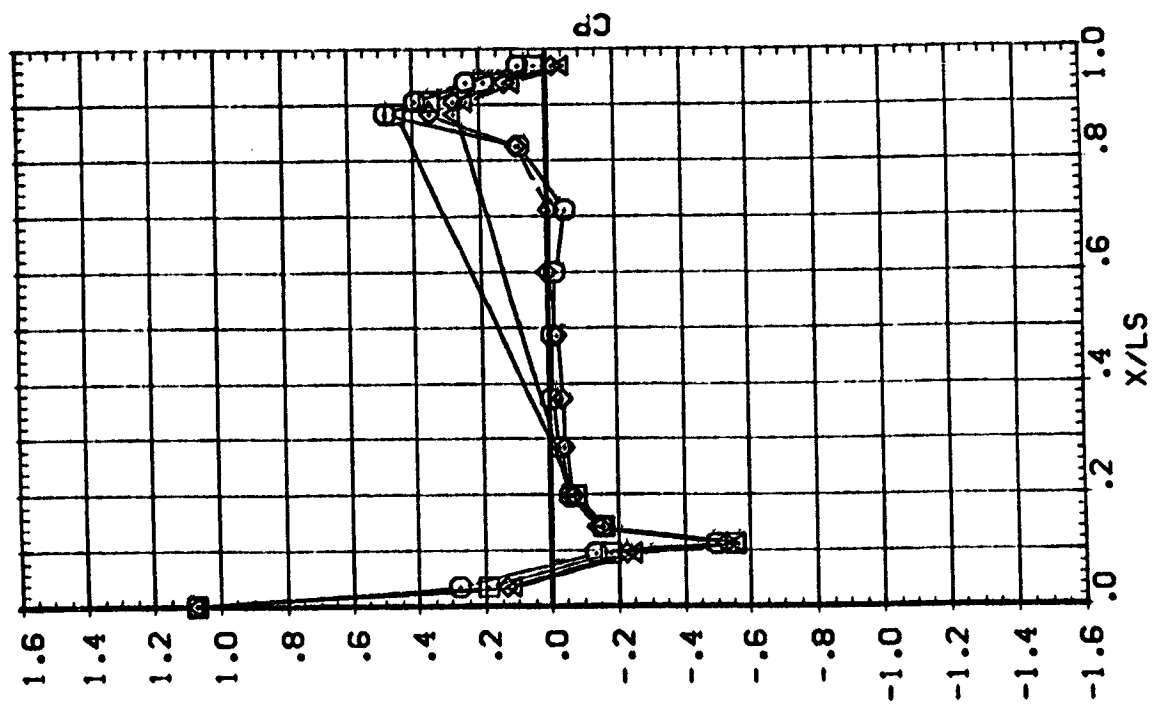
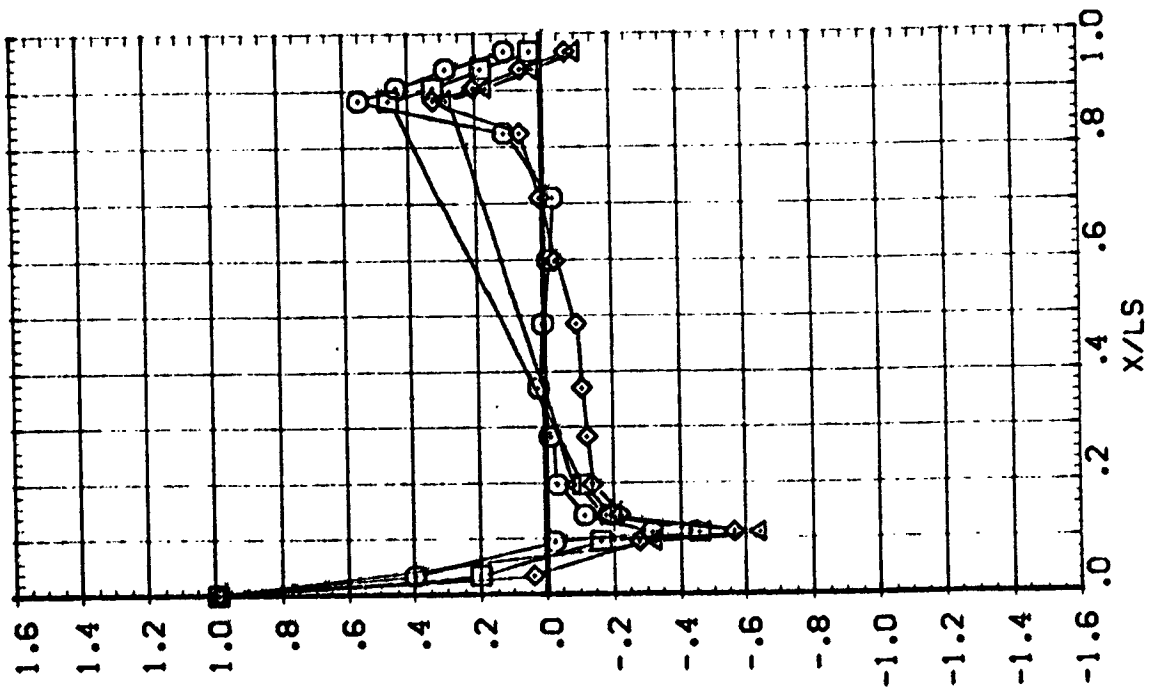
AMES 11-707 1A9 02A + S3 + T9 SRM BOOSTER (RBMS01)

PARAMETRIC VALUES
BETAT .000 ORBINC 1.500
R_JDDER .000 ELEVON .000
R_JDLR .000

SYMBOL
○ □ ◇ △

ALPHAT MACH
3.930 .597
7.950

PHI
.000
45.000
90.000
135.000



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES



AMES 11-707 1A9 02A + S3 + T9 SRM BOOSTER

(R8MS01)

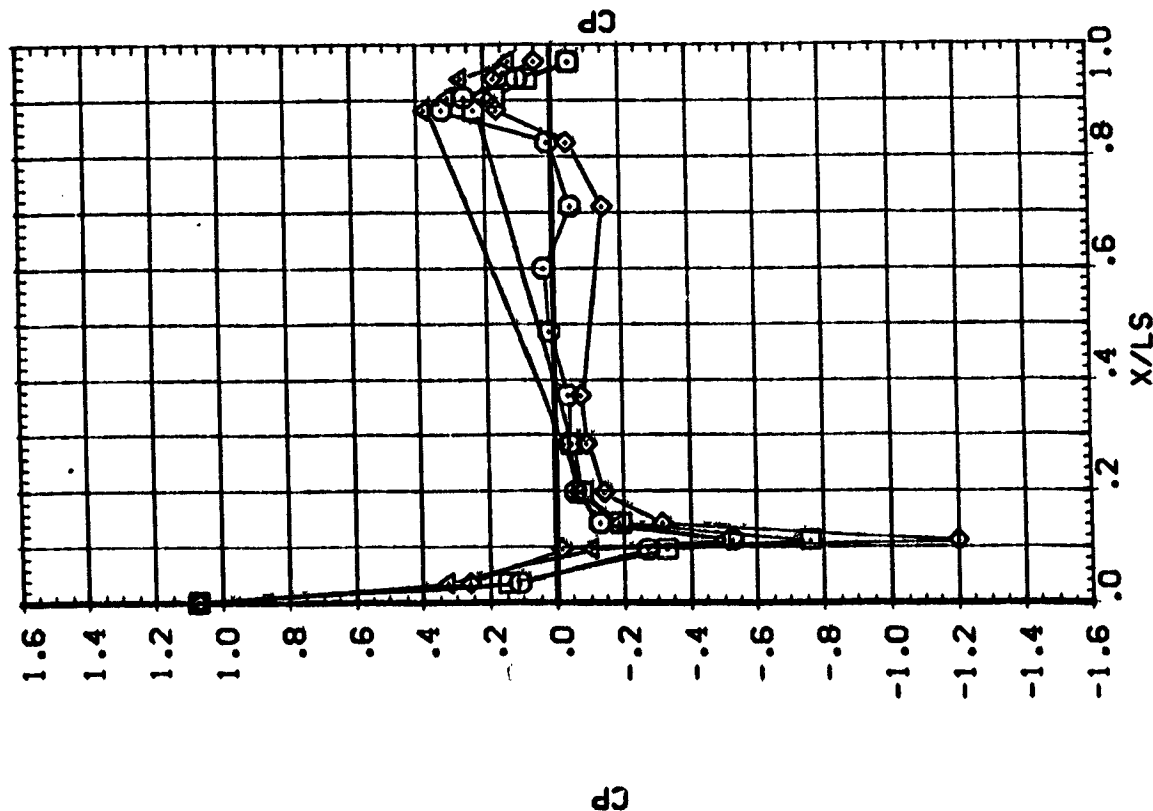
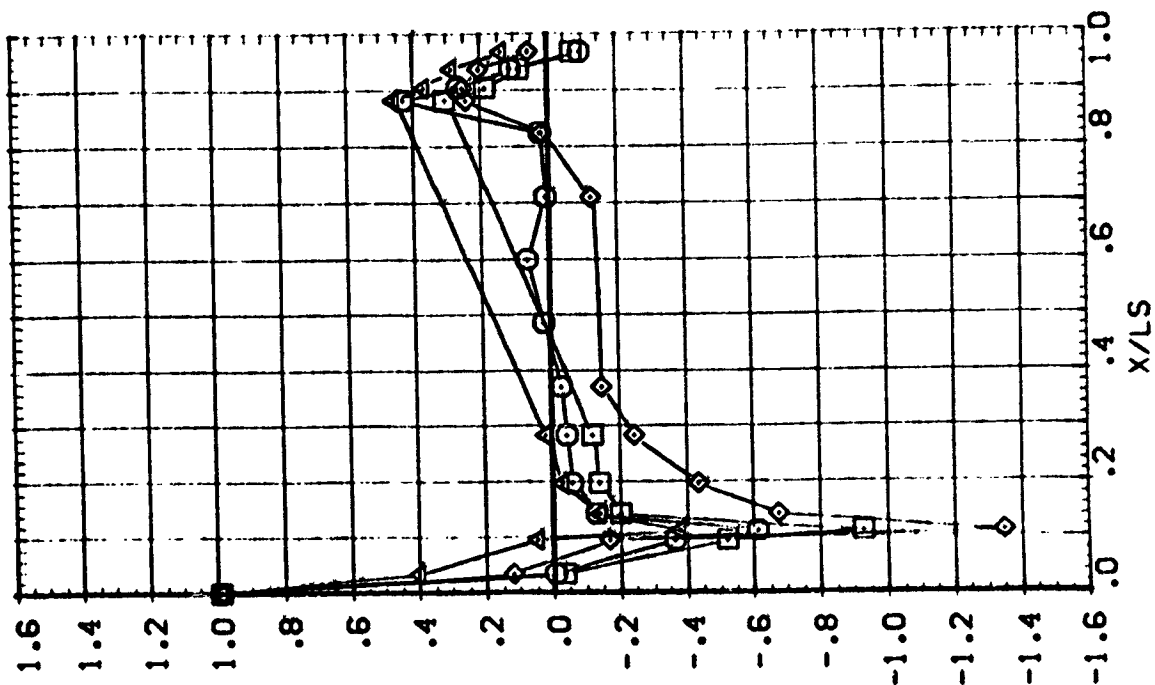
SYMBOL
○
□
◇
△

PHI
180.000
225.000
270.000
315.000

ALPHA
3.930
7.950

MACH
.597

PARAMETRIC VALUES
BETAT .000 ORBINC 1.500
RJODER .000 ELEVON .000
RJOFLR .000



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES



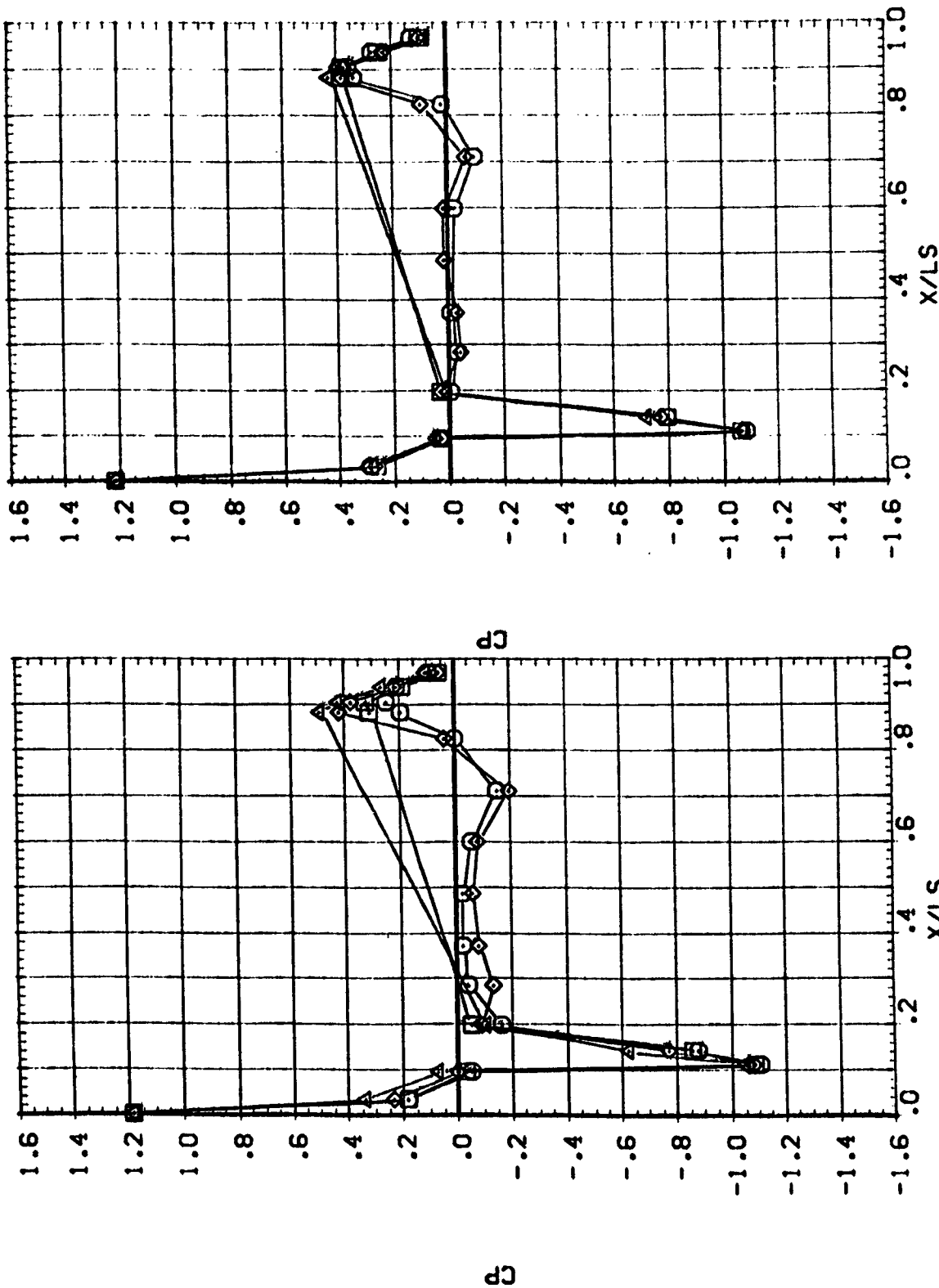
AMES 11-707 1A9 02A + S3 + T9 SRM BOOSTER (RBMSO1)

SYMBOL
 ○ □ ◇ △

PHI
 .000
 45.000
 90.000
 135.000

ALPHAT MACH
 -4.000 .899
 .030

PARAMETRIC VALUES
 BETAT .000 ORBINC 1.500
 RUDDER .000 ELEVON .000
 RUOFLR .000



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES



AMES 11-707 1A9 02A + S3 + T9 SRM BOOSTER

(RBMS01)

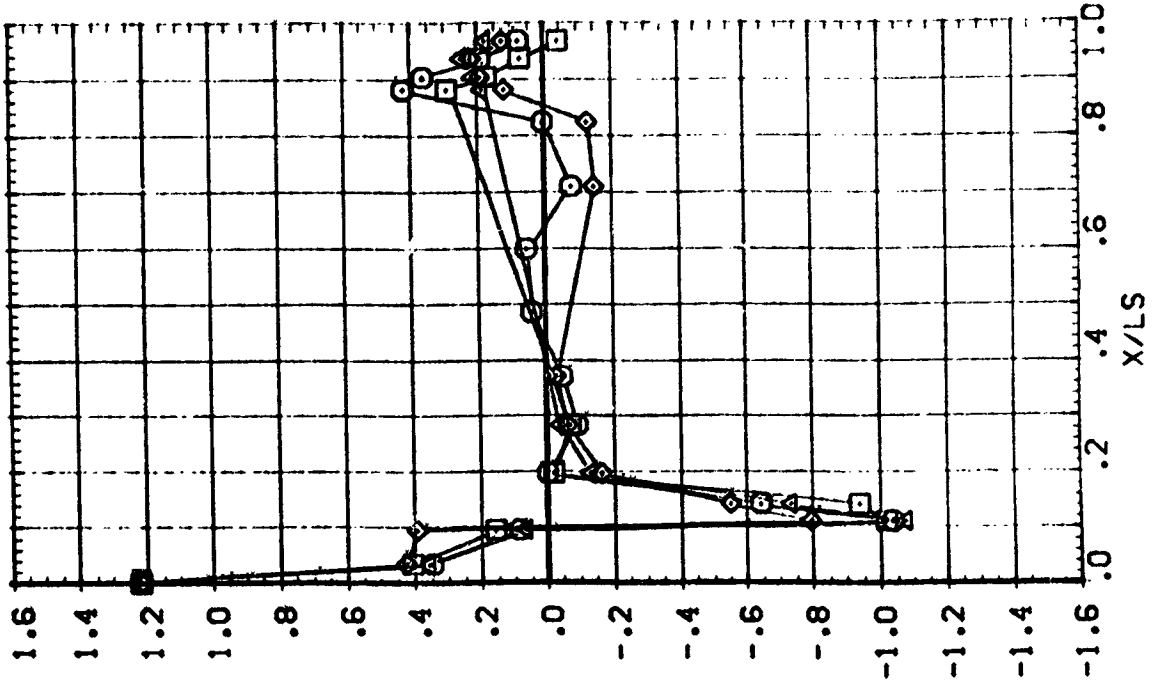
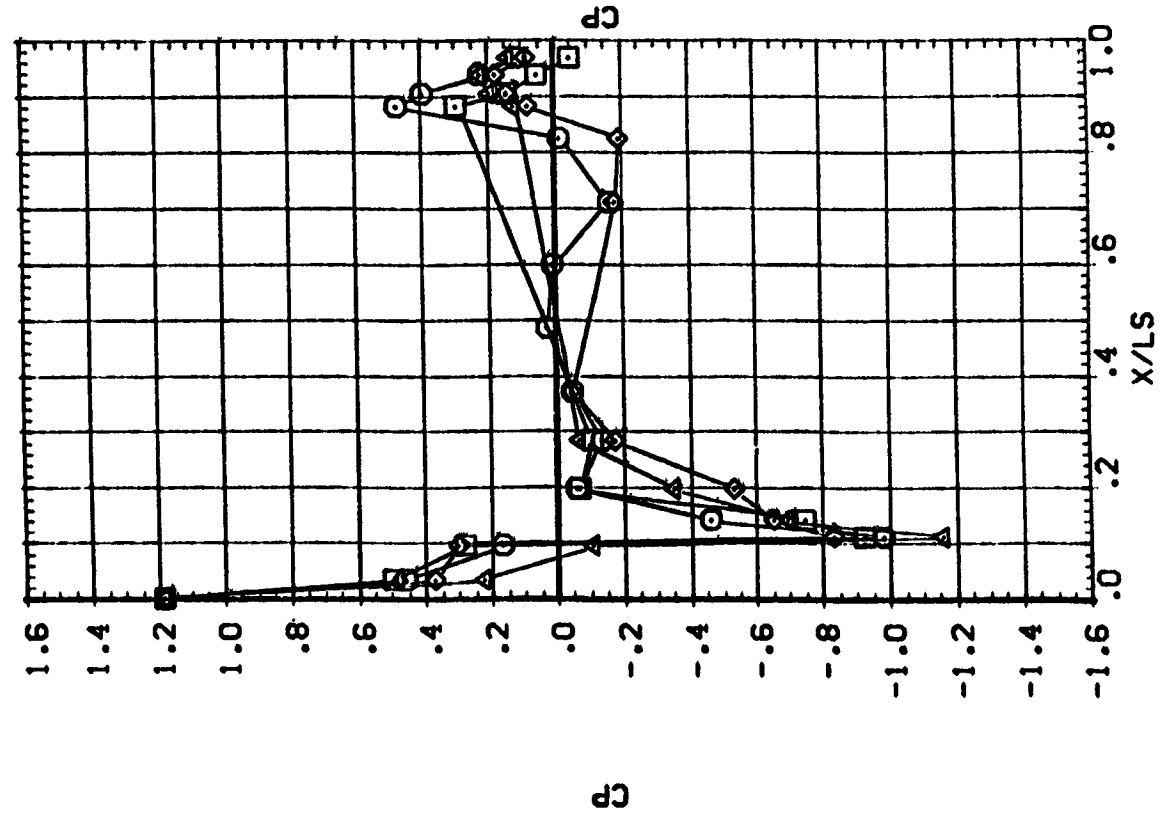
SYMBOL
○ □ ◇ △

PHI
180.000
225.000
270.000
315.000

ALPHA
-4.000
.030

MACH
.898

PARAMETRIC VALUES
BETAT .000 ORBINC 1.500
RUDDER .000 ELEVON .000
RUJFLR .000



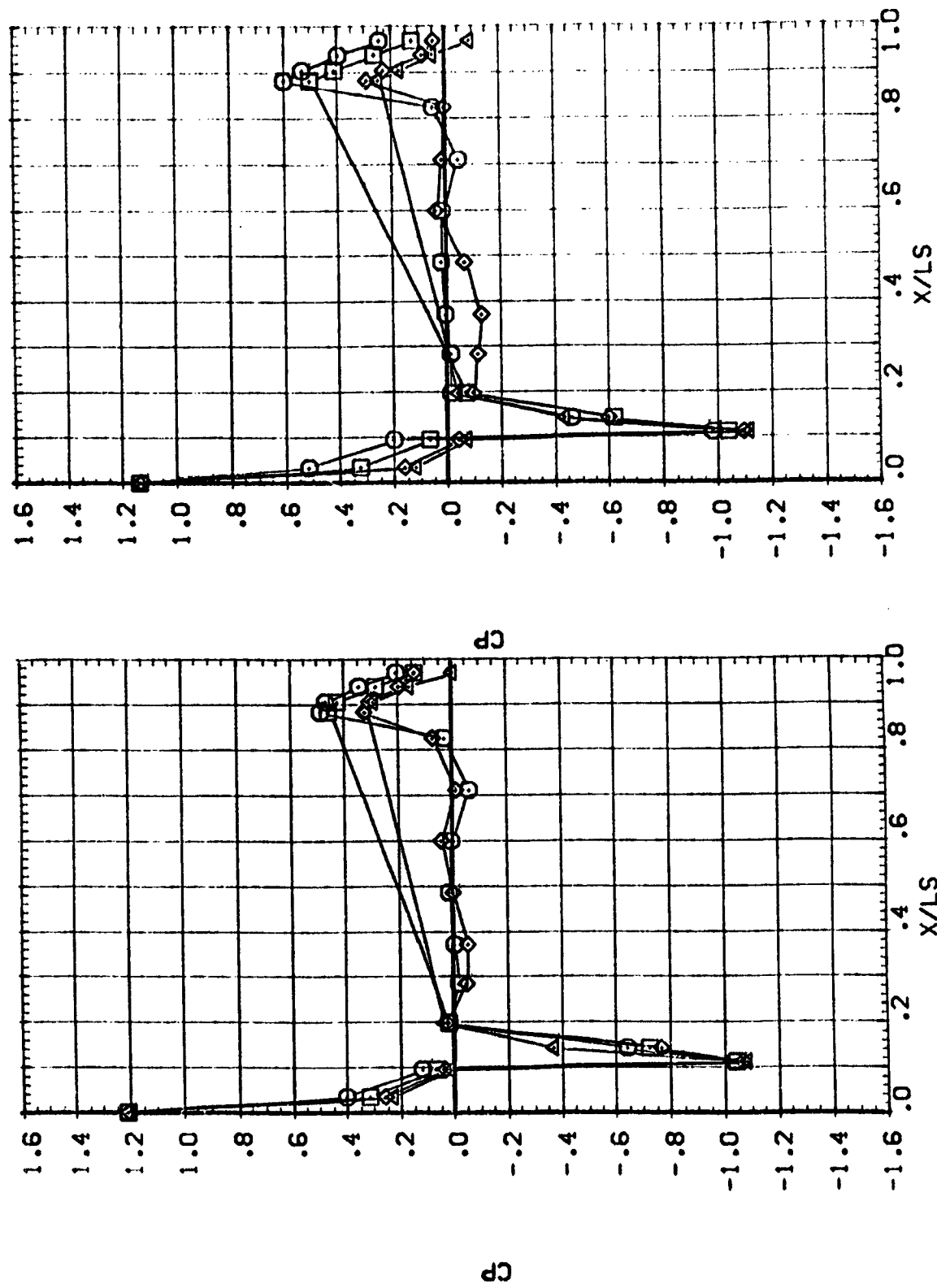
LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES



AMES 11-707 1A9 02A + S3 + T9 SRM BOOSTER

(RBMS01)

SYMBOL	PHI	ALPHAT	MACH	BETAT	RUDDER	RUDFLR	ORBNIC	ELEVON
○	.000	4.030	.899	.000	.000	.000	.000	.000
□	45.000	8.030						
◇	90.000							
△	135.000							



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES



AMES 11-707 1A9 02A + S3 + TS SRM BOOSTER

(RBMS01)

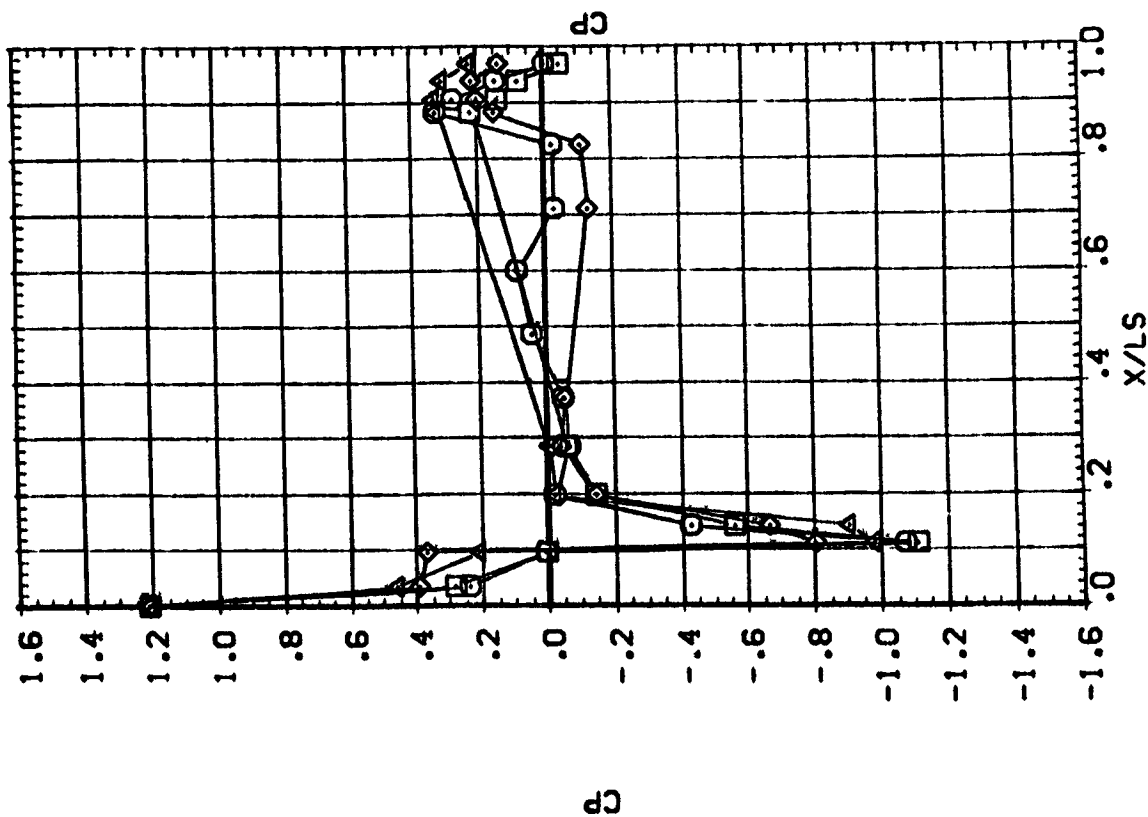
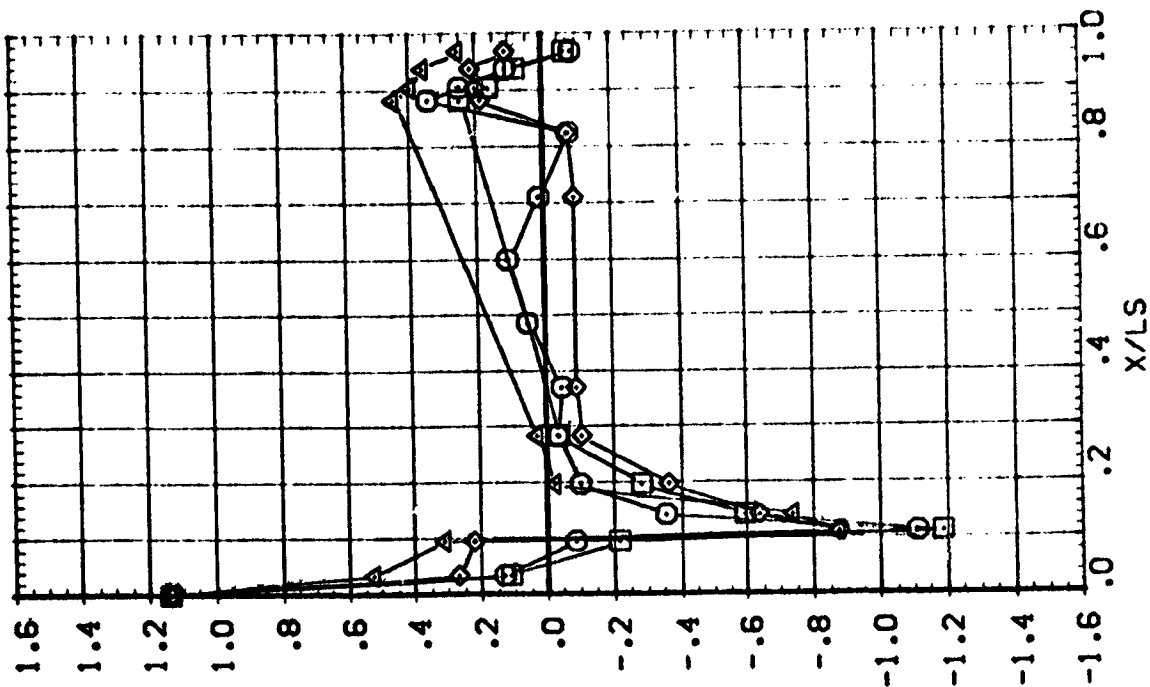
SYMBOL
 ○
 □
 ◇
 △

PHI
 180.000
 225.000
 270.000
 315.000

ALPHA
 4.030
 8.030

MACH
 .889

PARAMETRIC VALUES
 BETAT .000 ORBSINC 1.500
 RUDDER .000 ELEVON .000
 RUFLR .000



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES



AMES 11-707 1A9 C2A + S3 + T9 SRM BOOSTER

(RBMS01)

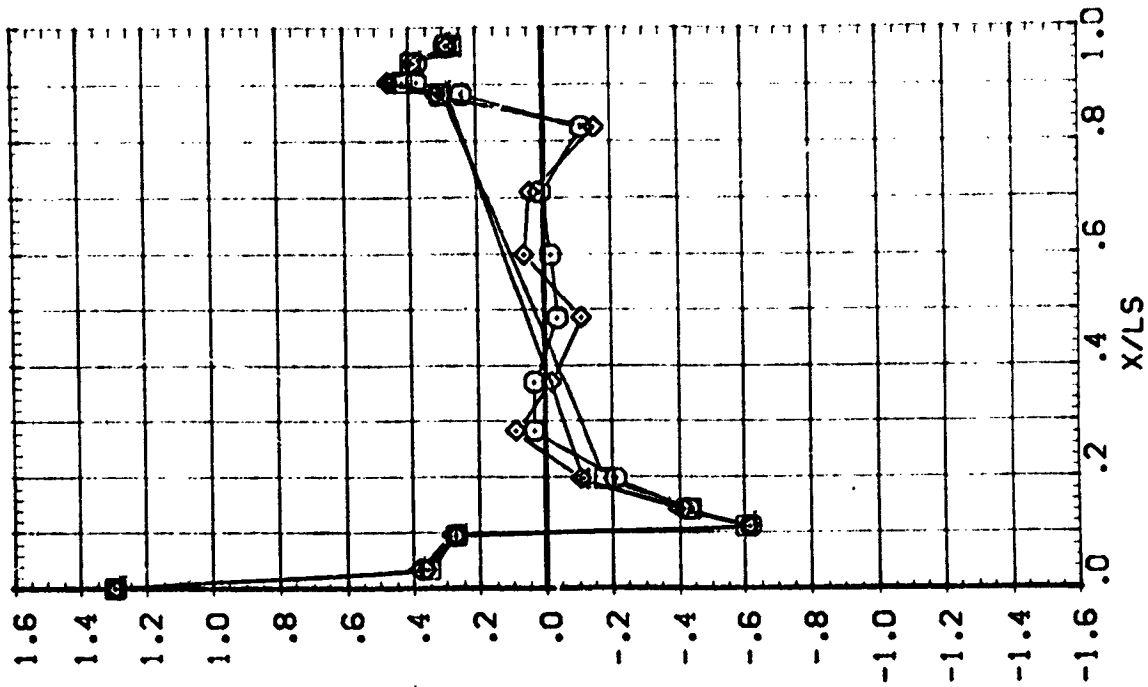
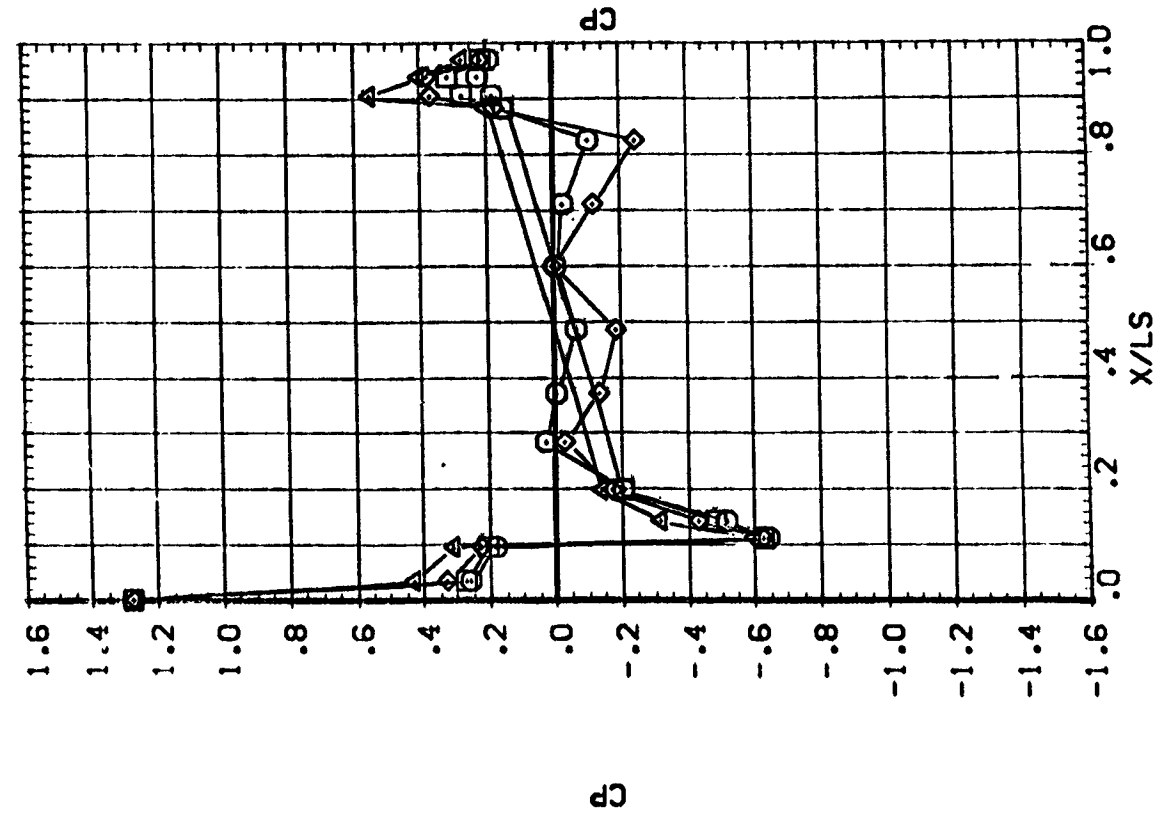
SYMBOL
O □ ◇ △

PHI .000
45.000
90.000
135.000

ALPHAT -3.980
.030

MACH 1.104

PARAMETRIC VALUES
BETAT .000 ORBINC .500
RUDDER .000 ELEVON .000
RUOFLR .000



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES



AMES 11-707 1A9 02A + S3 + T9 SRM BOOSTER

(RBMS01)

SYMBOL

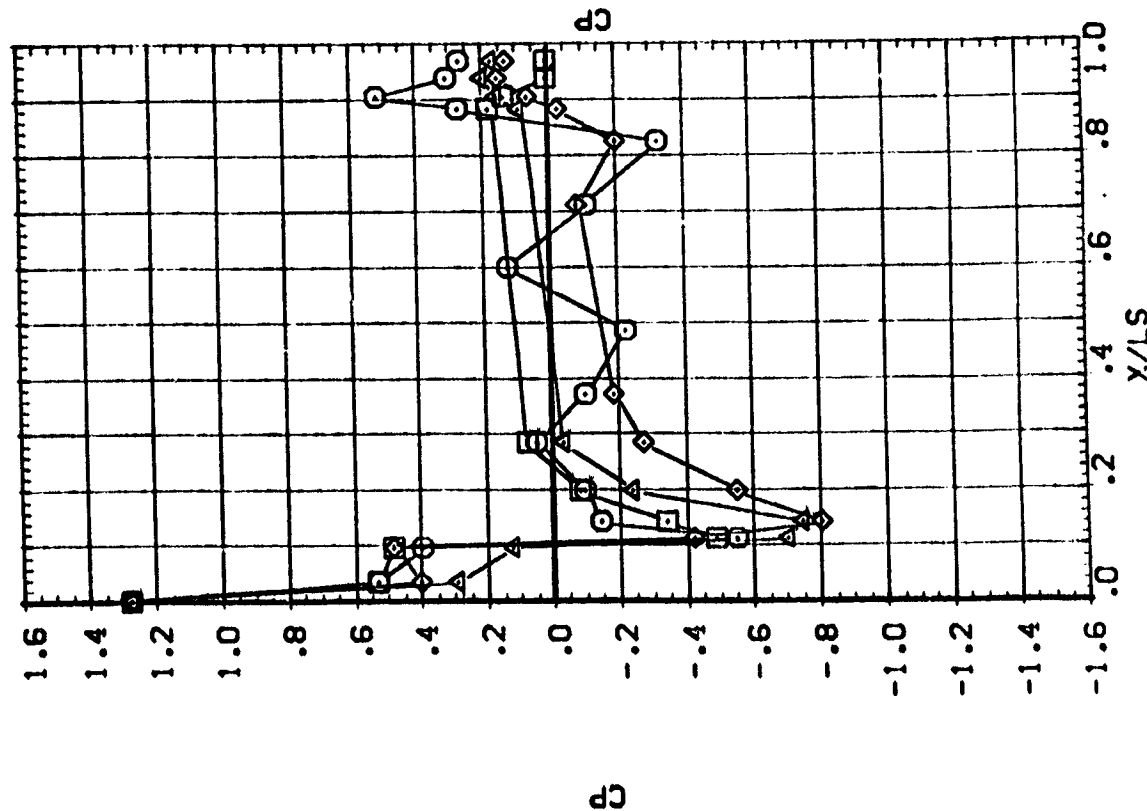
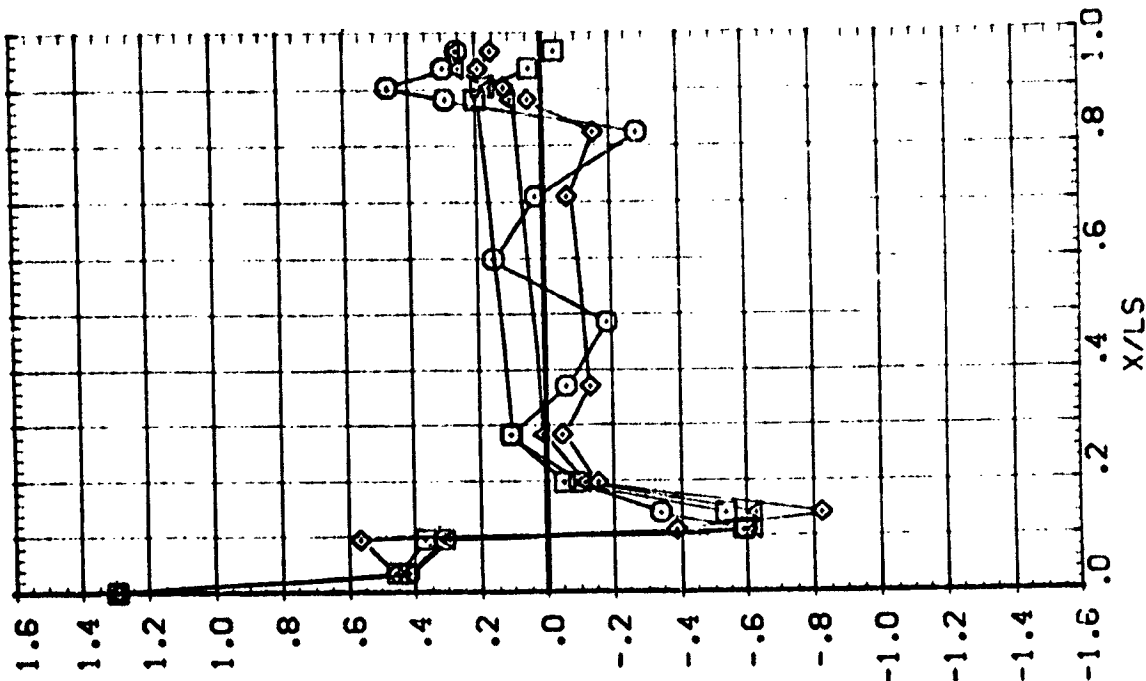
○ □ ◇ △

PHI 180.000
225.000
270.000
315.000

ALPHAT -3.980
MACH 1.104
.030

PARAMETRIC VALUES

BETAT .000 CRBINC 1.500
RUDDER .000 ELEVEN .000
RUDDFLR .000



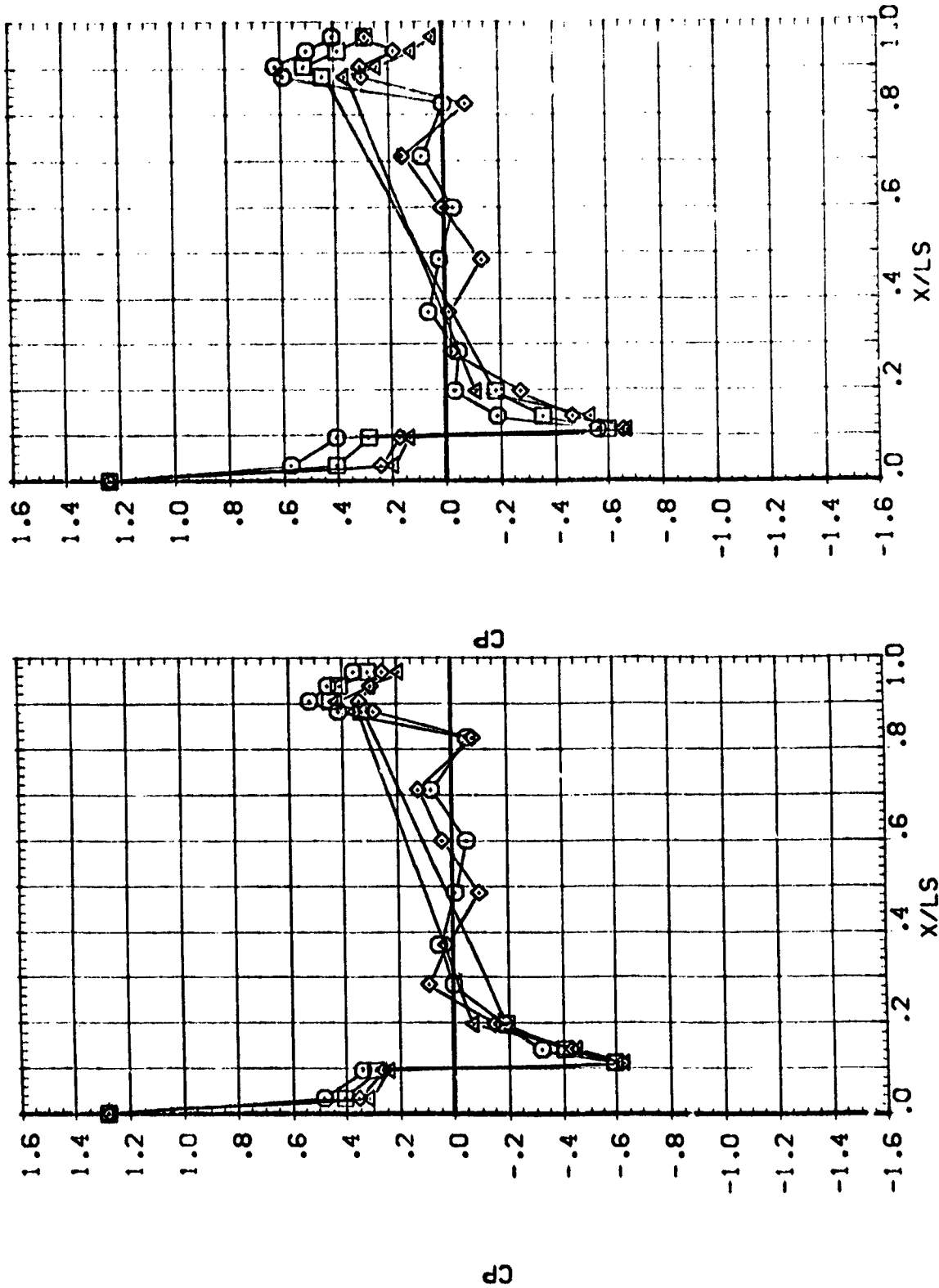
LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES



AMES 11-707 1A9 02A + S3 + T9 SRM BOOSTER

(RBMSC1)

SYMBOL	PHI	ALPHAT	MACH	PARAMETRIC VALUES			
				BETAT	RJDOFLR	RJDOFLR	ELEVEN
○	.000	4.020	1.02	.000	.000	.000	.500
□	45.000	7.980		.000	.000	.000	.000
◇	90.000						
△	135.000						



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES



AMES 11-707 1A9 02A + S3 + T9 SRM BOOSTER

(RBMS01)

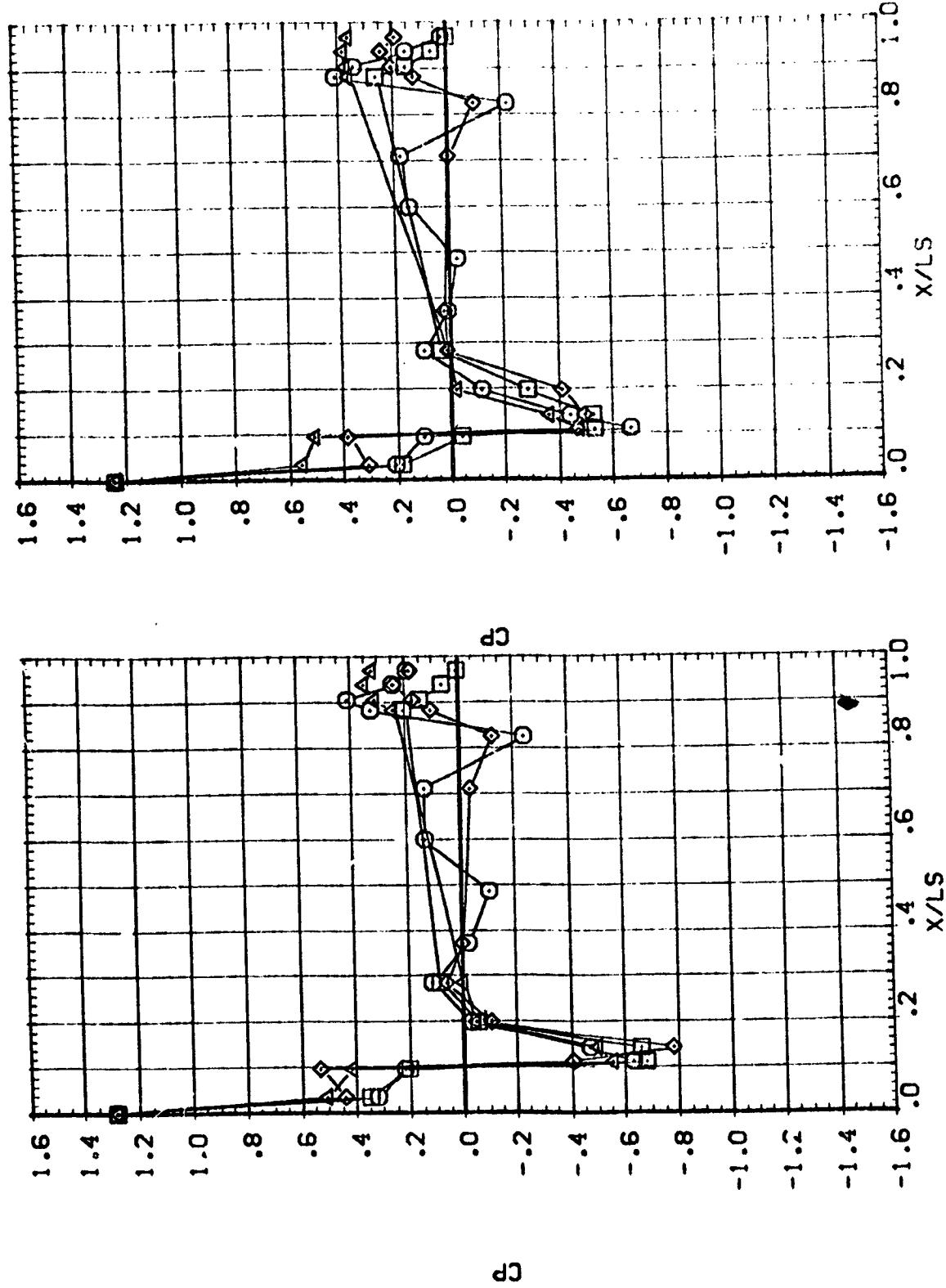
SYMBOL
○ □ ◇ △

PMI 180.000
225.000
270.000
315.000

ALPHA-T 4.020
7.980

MACH 1.102

PARAMETRIC VALUES
BETAT .000 CRBINC 1.500
R2JDER .000 ELEVON .000
R2JFLR .000



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES



AMES 11-707 1A9 02A + S3 + T9 SRM BOOSTER

(RBMS01)

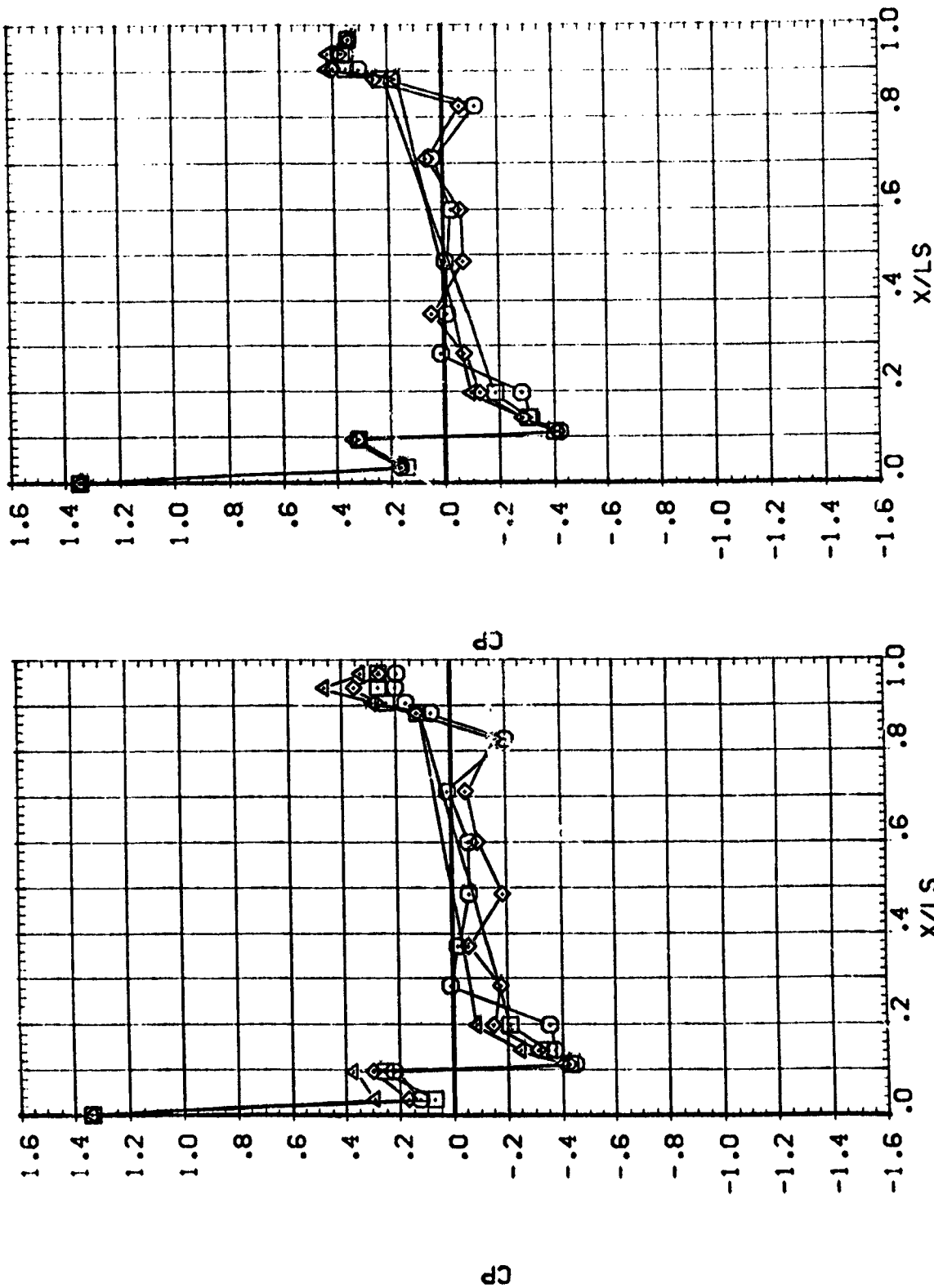
SYMBOL
 ○ □ ◇ △

PHI .000
 45.000
 90.000
 135.000

ALPHA T MACH
 -4.030 1.248
 .040

PARAMETRIC VALUES
 BETAT .000
 RUDDER .000
 RUDDLR .000

ORBITG 1.500
 ELEVON .000



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES



(RBMS01)

AMES 11-707 1A9 02A + S3 + T9 SRM BOOSTER

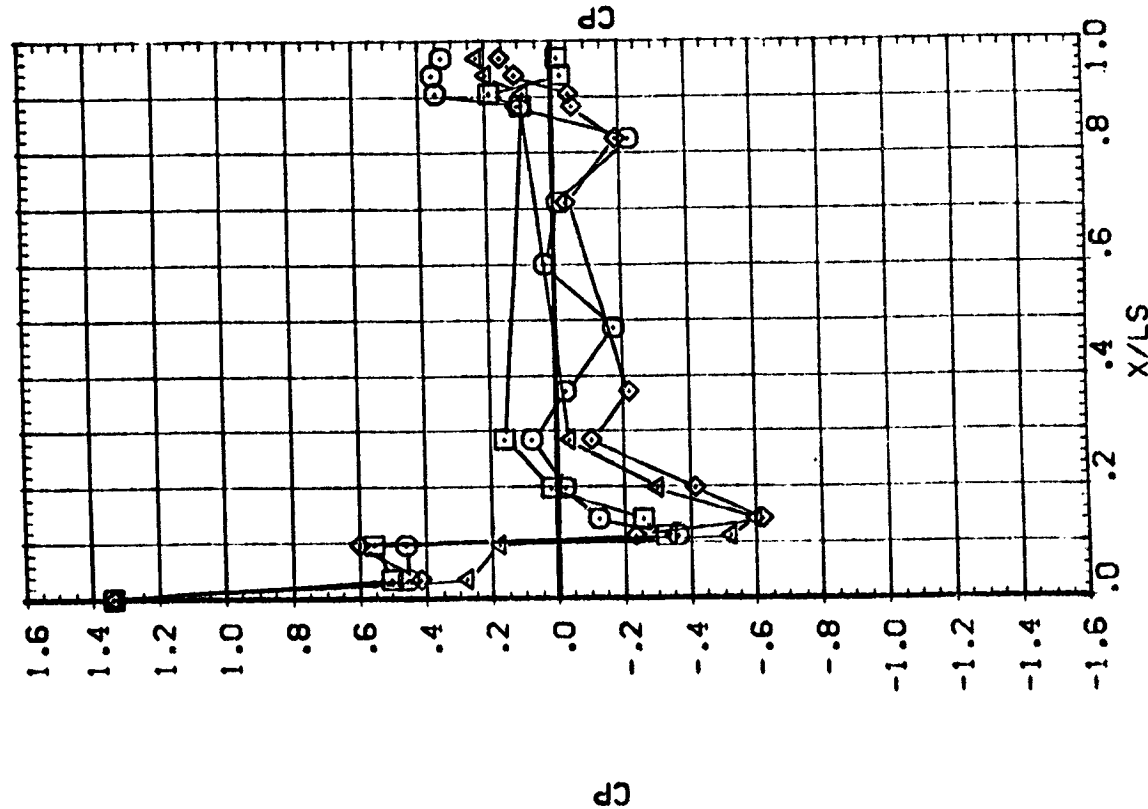
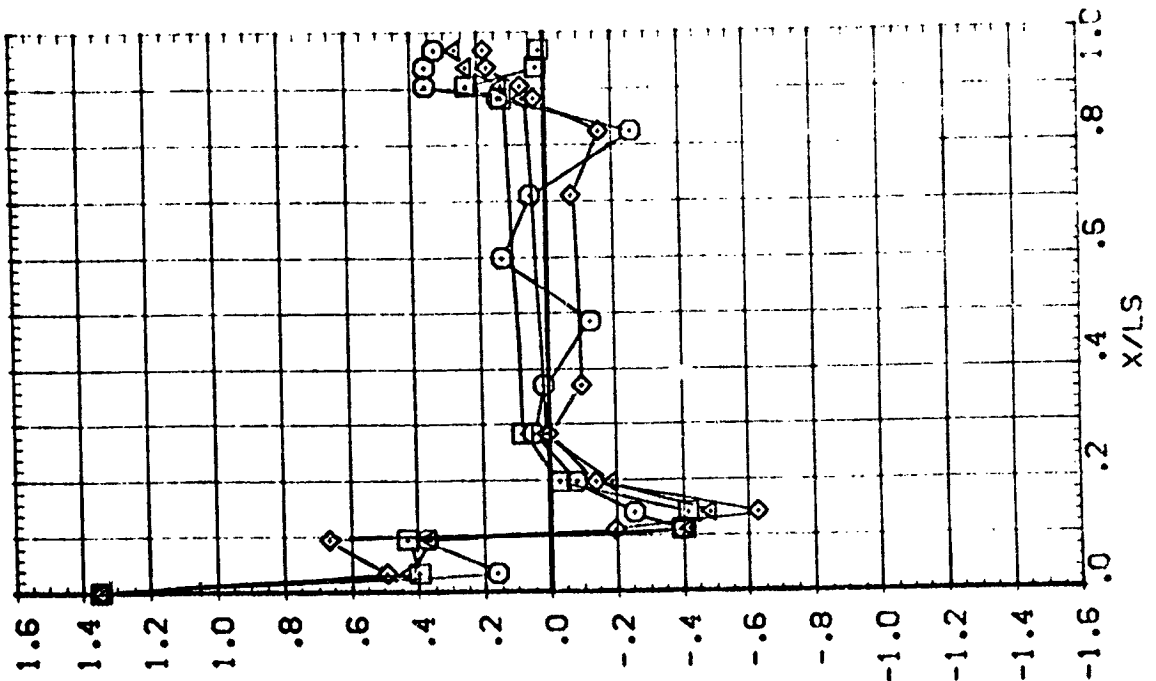
SYMBOL
○ □ ◇ △

PHI
180.000
225.000
270.000
315.000

ALPHAT
-4.030
.040

MACH
1.248

PARAMETRIC VALUES
BETAT .000 ORBINC 1.500
RUDDER .000 ELEVON .000
RUDFLR .000



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

(RBMS01)

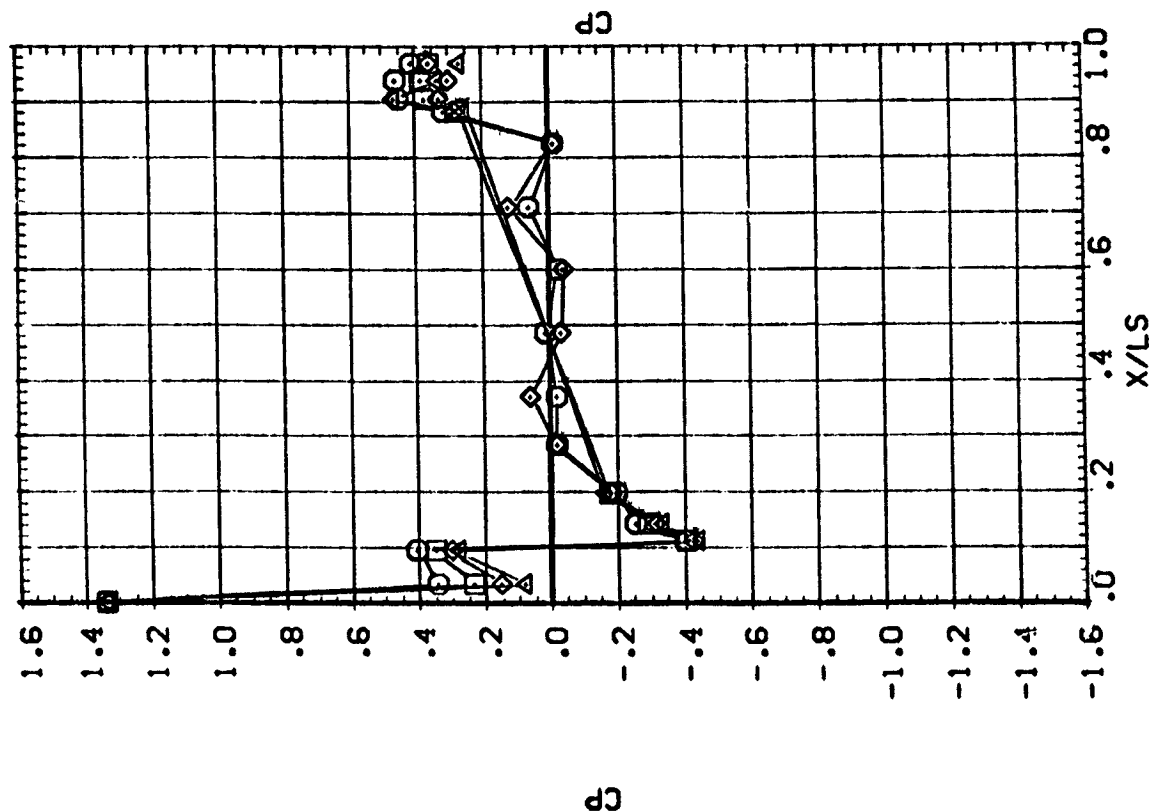
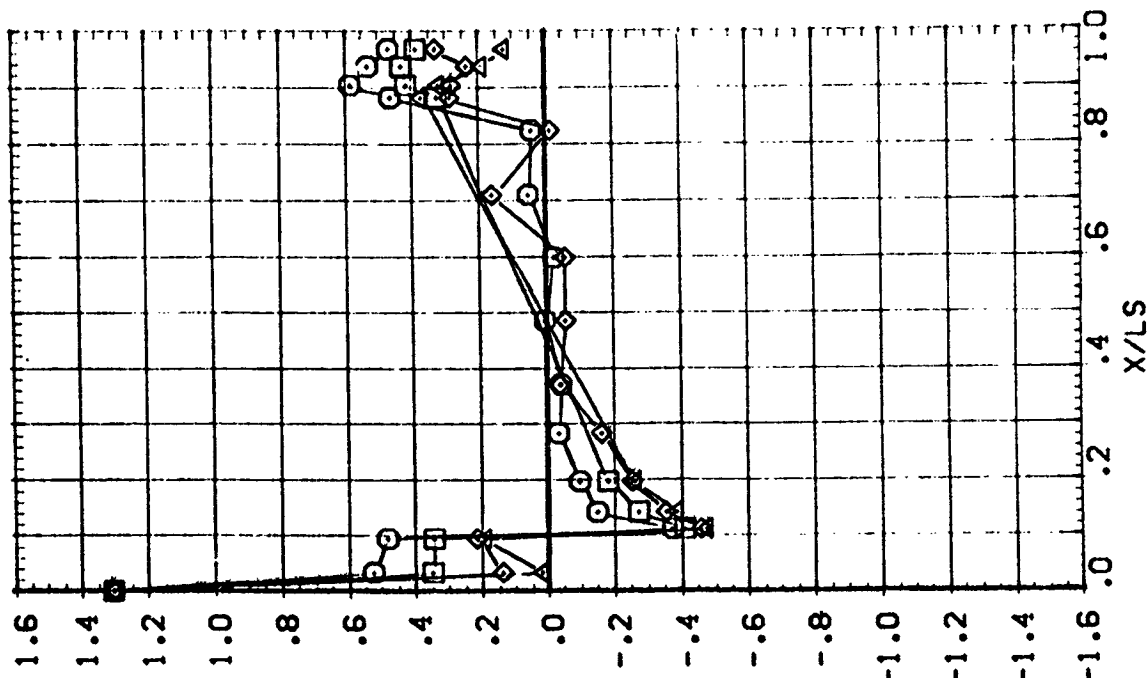
AMES 11-707 :A9 02A + S3 + T9 SRM BOOSTER

PARAMETRIC VALUES
 BETAT .000 ORBINC 1.500
 RJOER .000 ELEVON .000
 RJOFLR .000

SYMBOL
 ○ 1.000
 ◇ 45.000
 △ 93.000
 135.000

PHI
 .000
 4.040
 8.010

ALPHAT MACH
 1.248



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

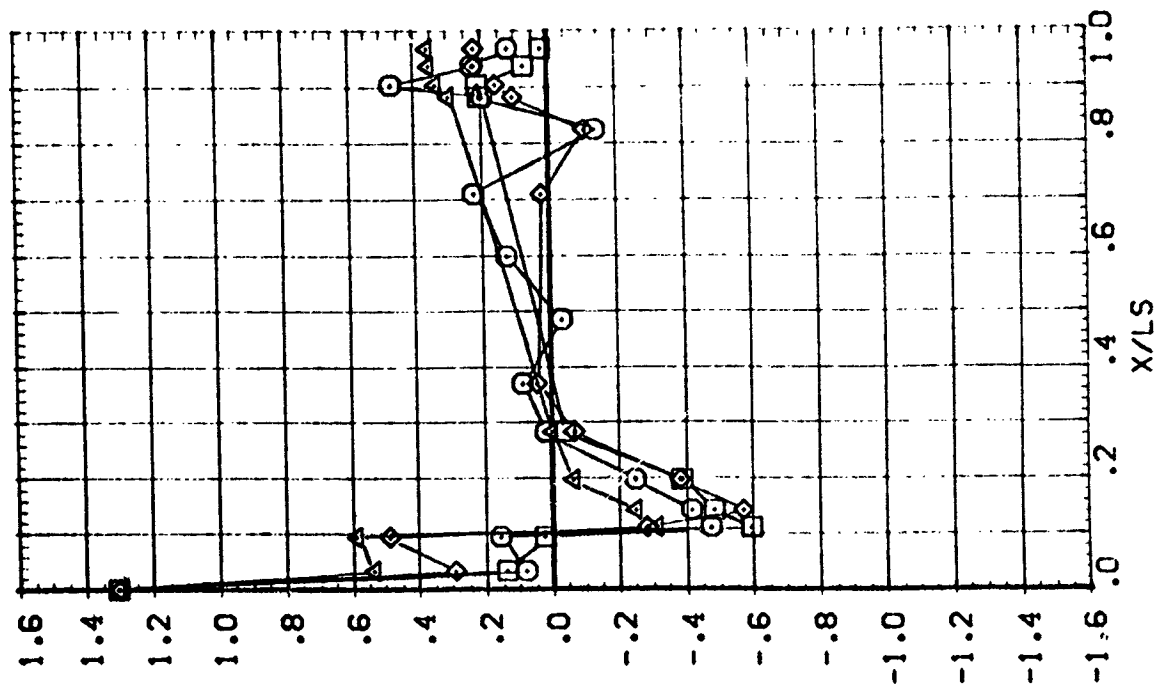
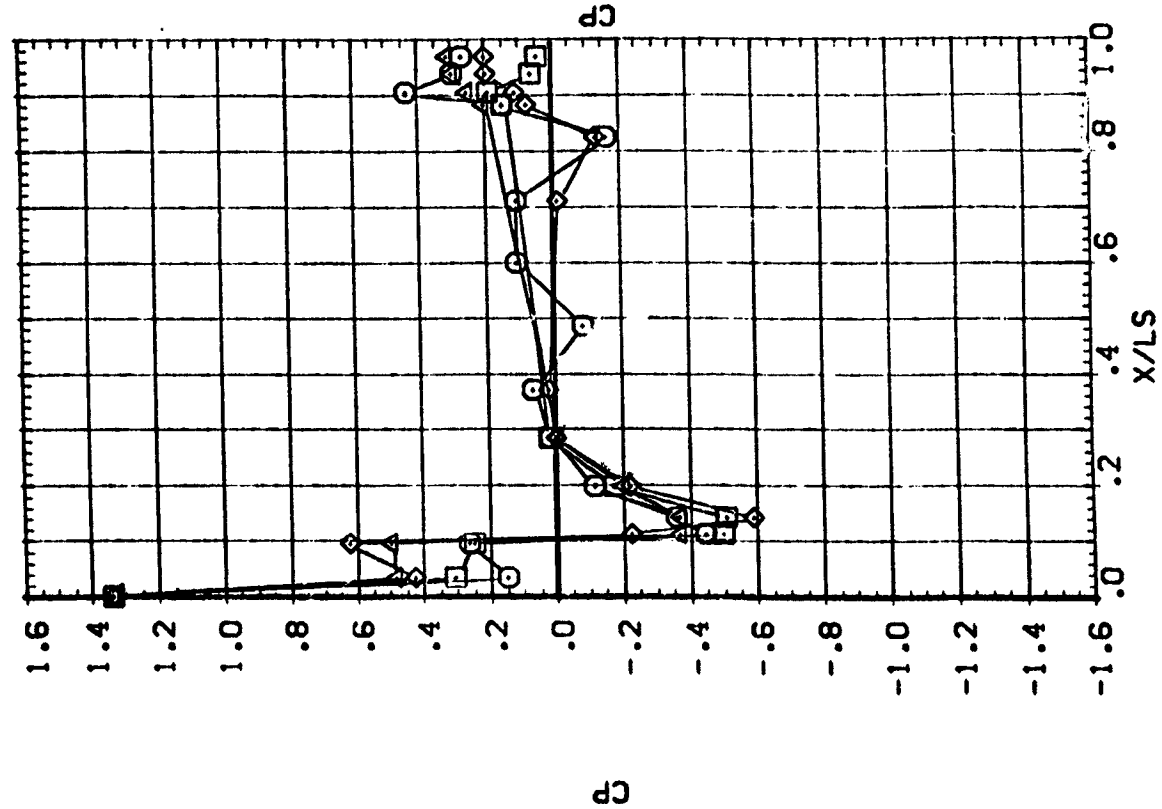


AMES 11-707 1A9 02A + S3 + T9 SRM BOOSTER

(RBMS01)

SYMBOL P-H ALPHAT MACH
180.000 4.040 1.248
225.000 8.010
270.000
315.000

PARAMETRIC VALUES
BETAT DRBINC 1.500
R_JDDER ELEVON .000
R_JDFLR .000



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

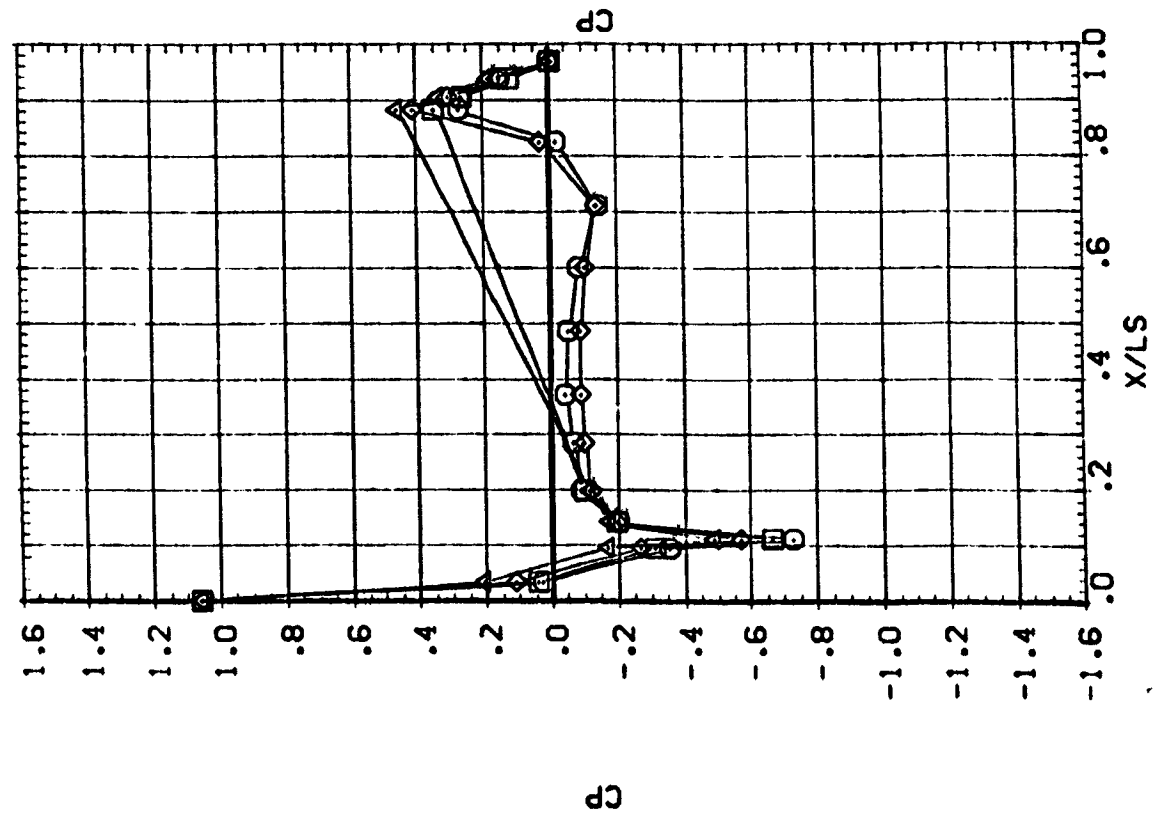
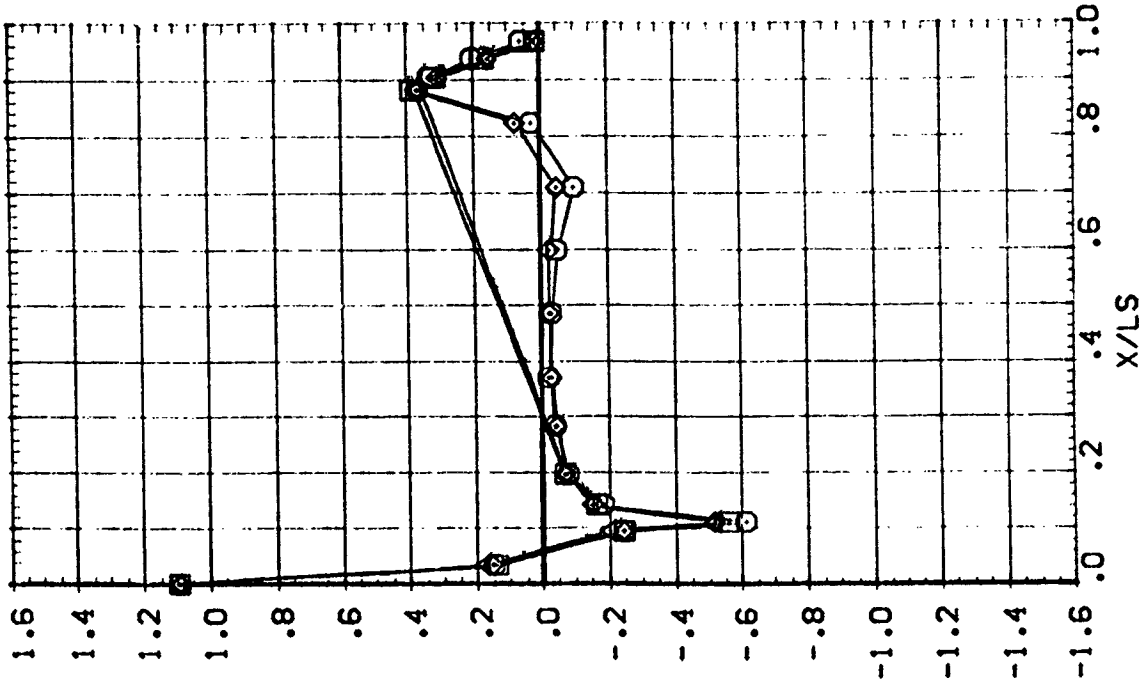
AMES :1-707 :A9 02A + S3 + T9 SRM BOOSTER

(RBMS02)

PARAMETRIC VALUES
BETAT .000 ORBINC .500
RJOER .000 ELEVON .000
RJOFLR .000

PHI .000 ALPHAT MACH .599
45.000 .020
90.000
135.000

SYMBOL
□ ○ ◇ △



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES



AMES 11-707 1A9 02A + S3 + T9 SRM BOOSTER

(RBMS02)

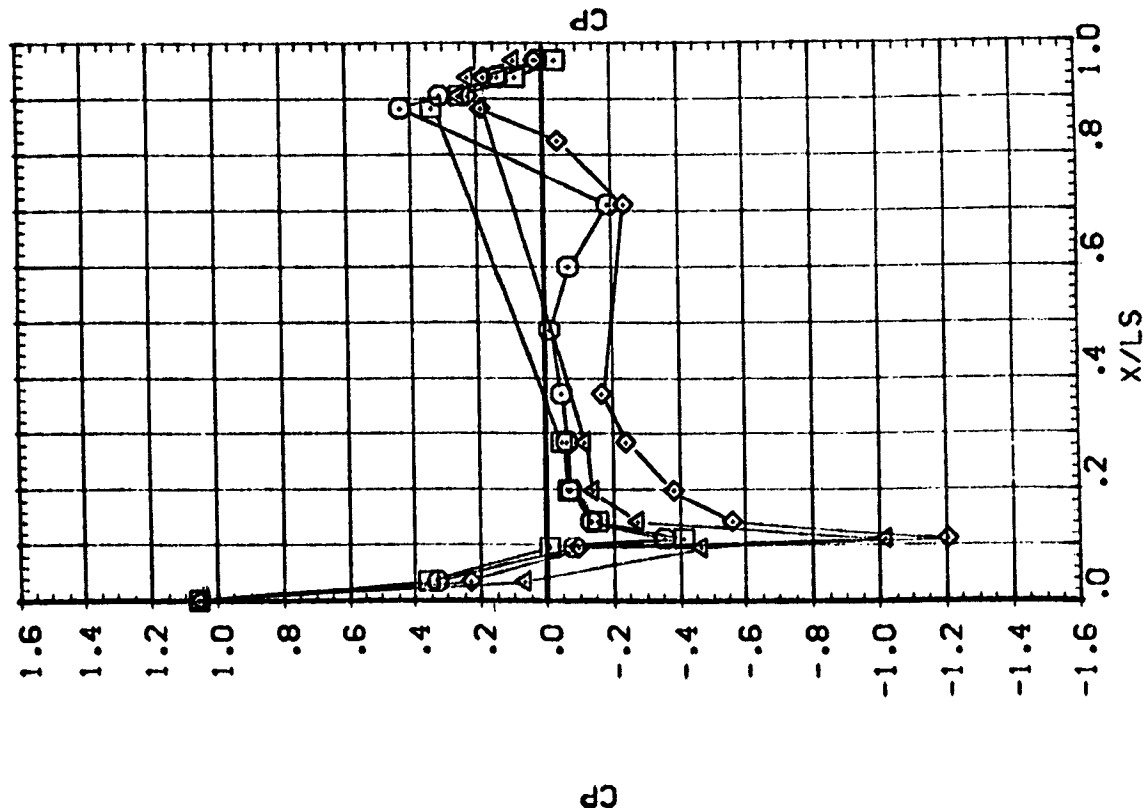
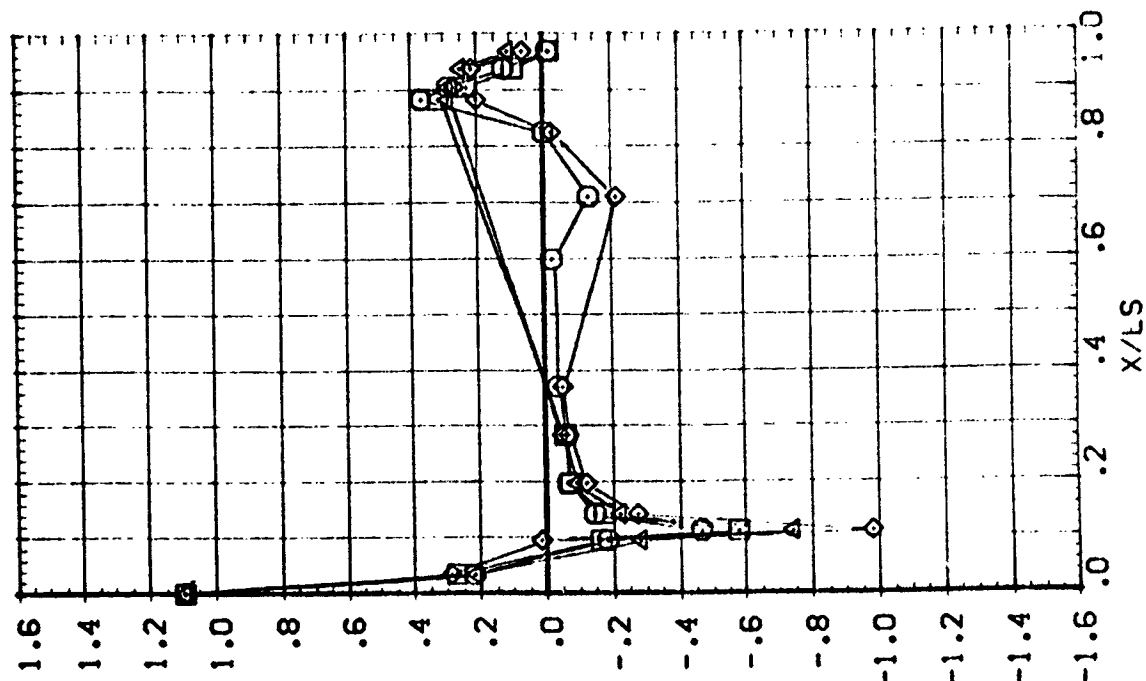
SYMBOL
□
◇
△

PHI
180.000
225.000
270.000
315.000

ALPHAT
-3.590
.020

MACH
.599

PARAMETRIC VALUES
BETAT .000 ORBINC .500
R_JDDER .000 ELEVON .000
R_JDFLR .000



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES



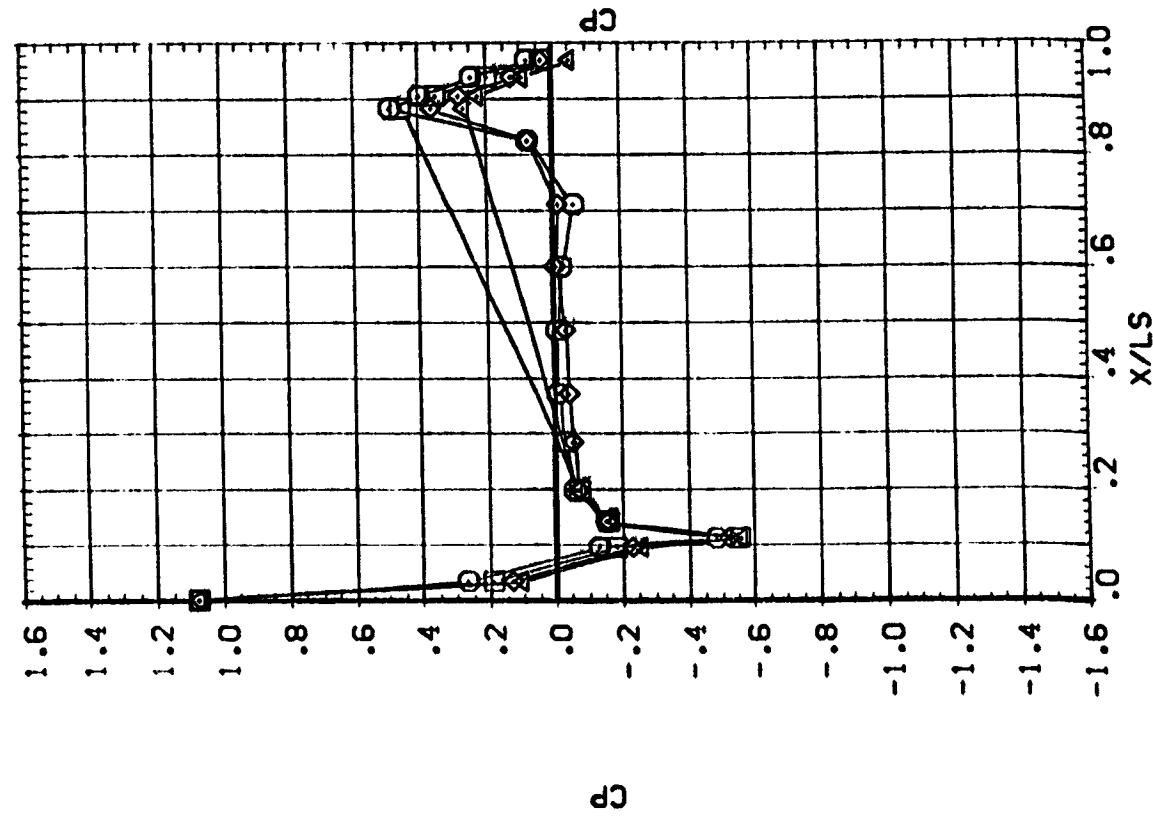
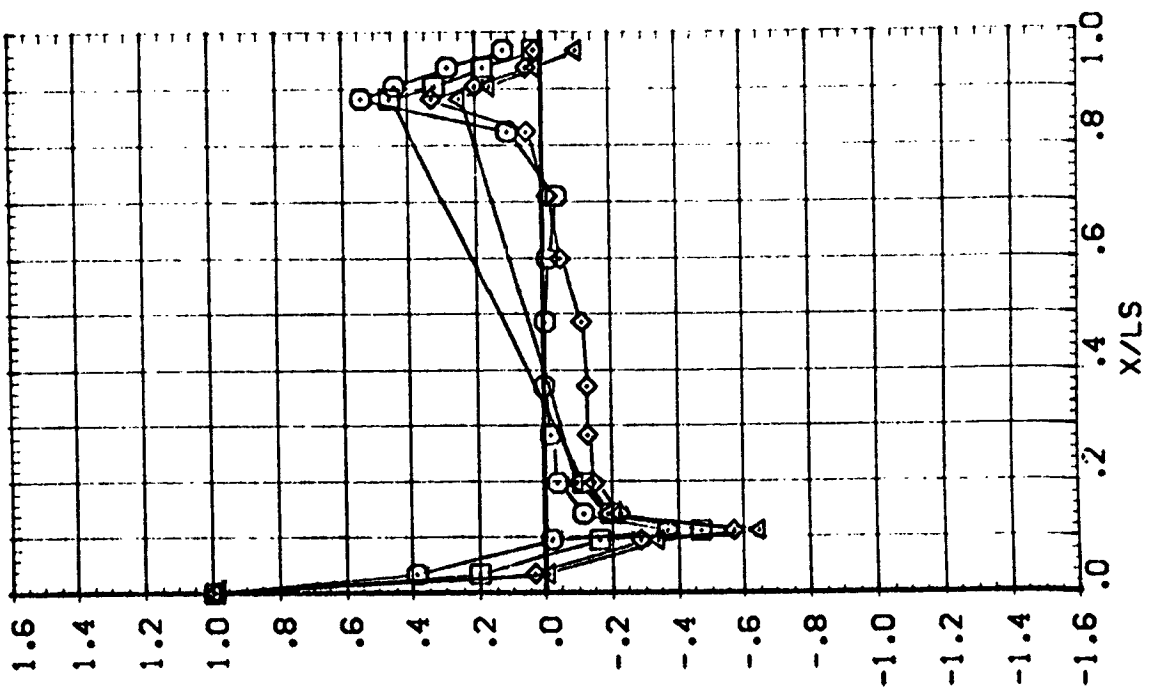
AXES 11-707 1A9 C2A + S3 + T9 SRM BOOSTER

(RBMS02)

PARAMETRIC VALUES
 BETAT .000 ORBIT C .500
 RUDDER .000 ELEVON .000
 RUOFLR .000

PHI: .000 ALPHAT MACH .597
 45.000 4.020
 90.000 8.000
 135.000

SYMBOL
 ○ □ ◇ △



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES



AMES 11-707 1A9 02A + S3 + T9 SRM BOOSTER

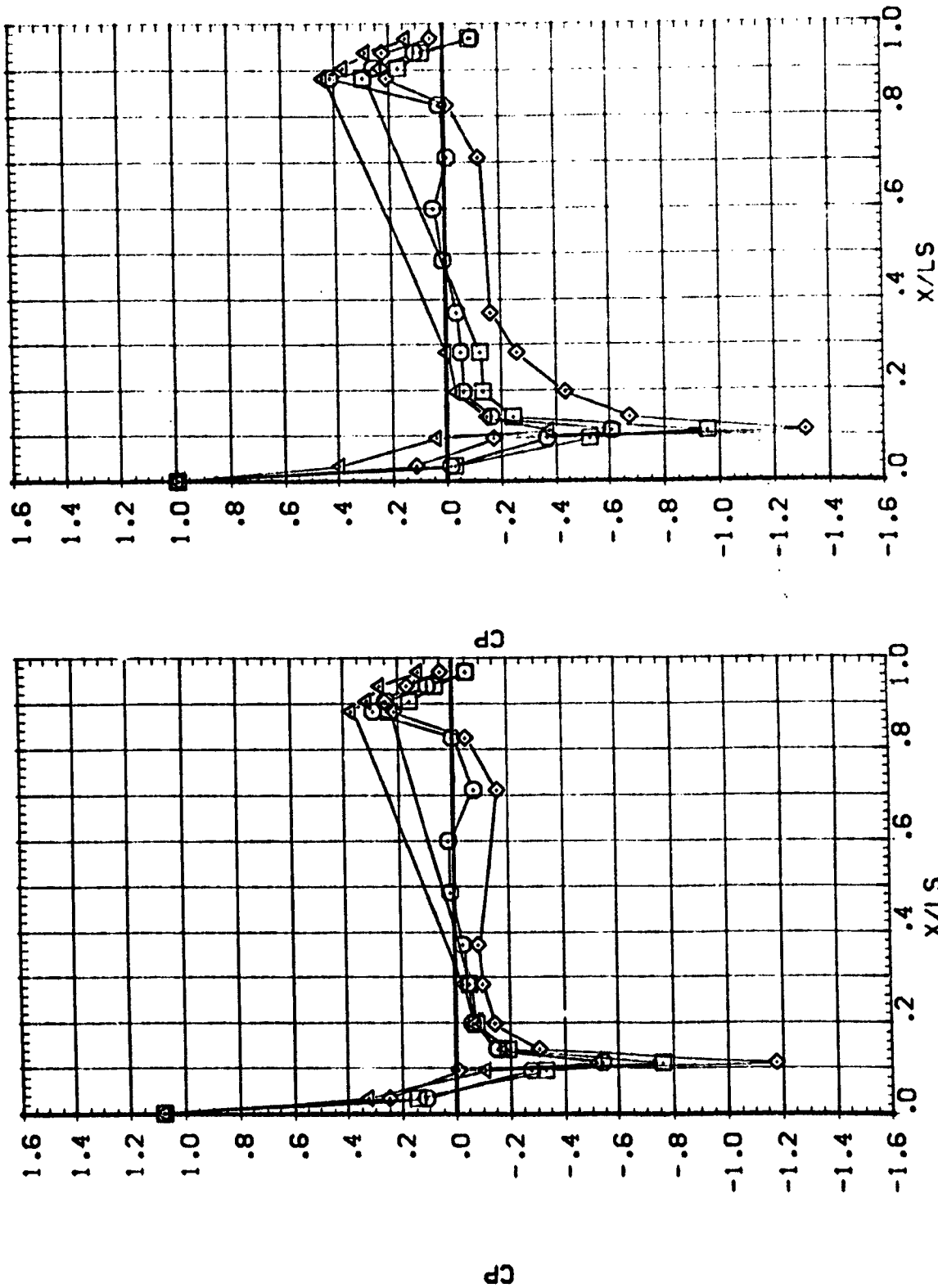
(RBMS02)

SYMBOL
○ □ ◇ △

PHI
180.000
225.000
270.000
315.000

ALPHAT MACH
4.020 .597
8.000

PARAMETRIC VALUES
BETAT .000 ORBINC .500
RJOER .000 ELEVON .000
RJOFLR .000



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES



AMES 11-707 :A9 02A + S3 + T9 SRM BOOSTER

(RBMS02)

SYMBOL
□
◇
△

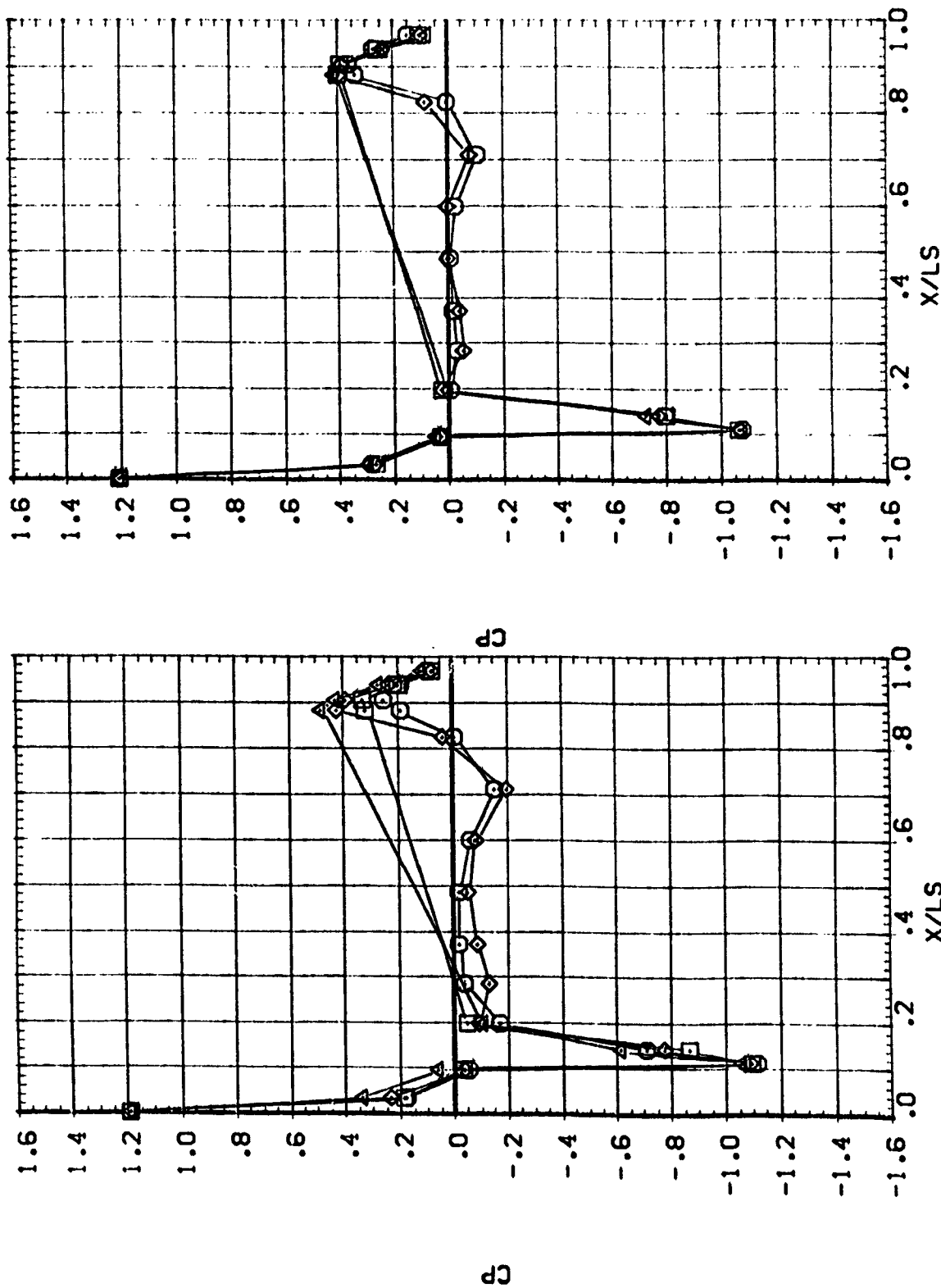
PHI
.000
45.000
90.000
135.000

ALPHAT
-4.030
.010

MACH
.500
.000

PARAMETRIC VALUES
BETAT
RUDDER
RUDFLR

.500
.000



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

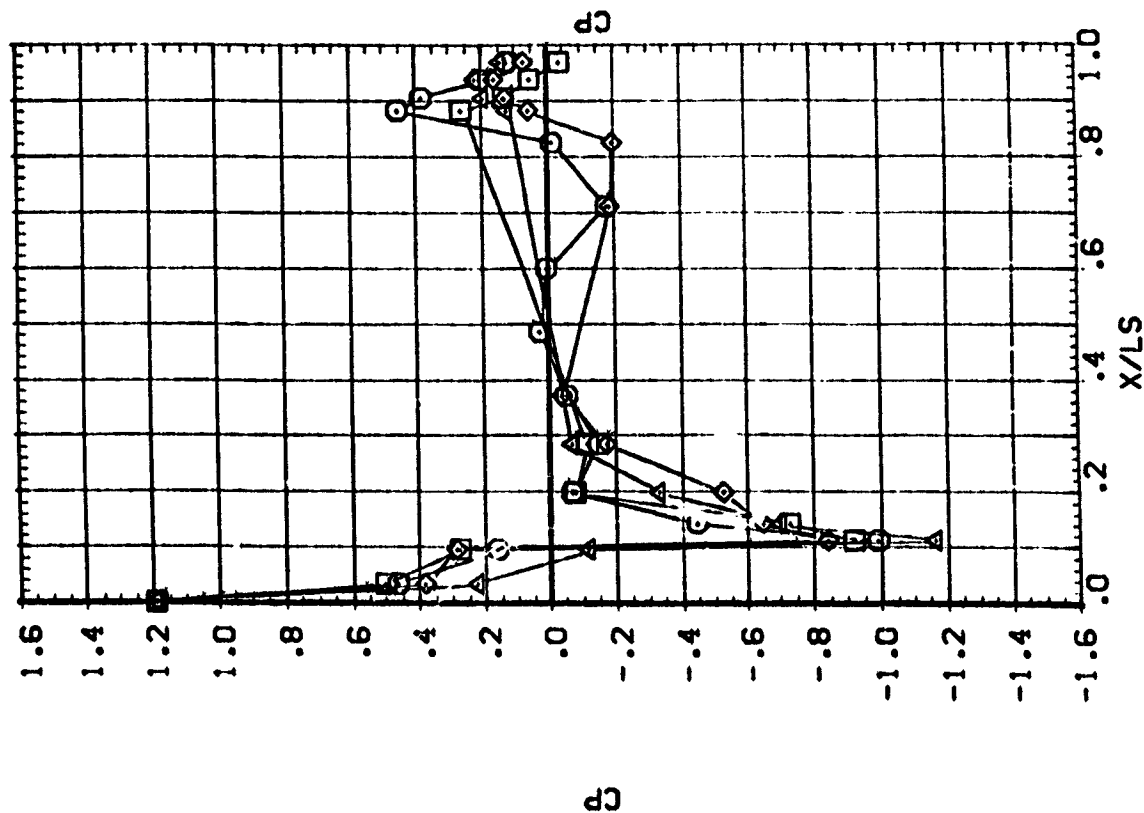
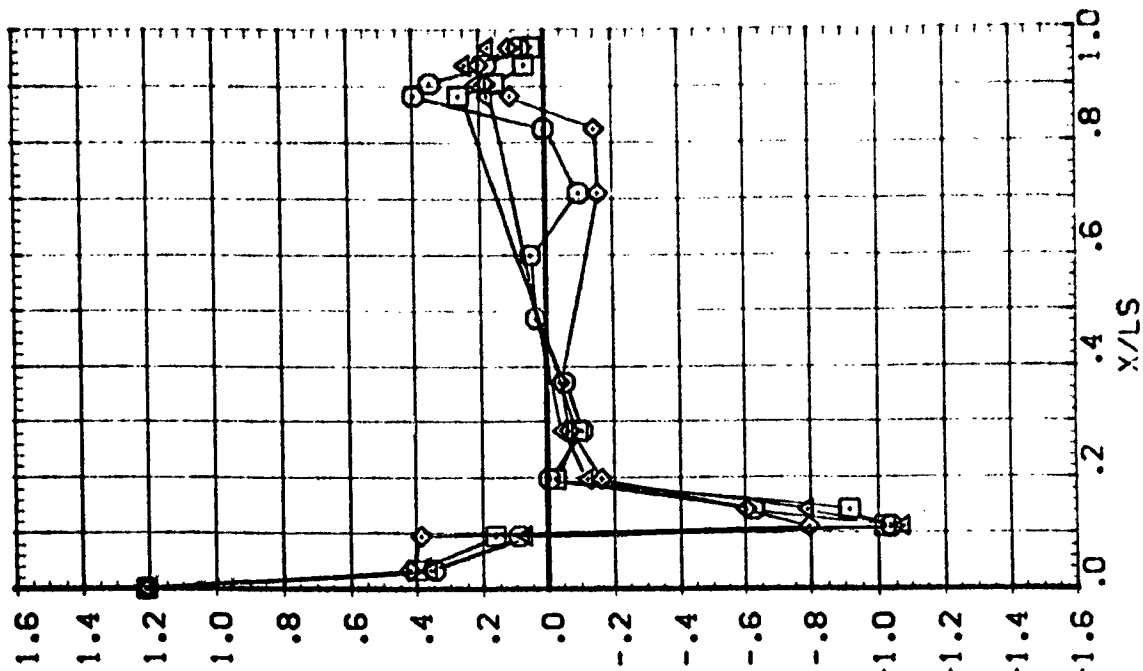


AMES 11-707 1A9 02A + S3 + T9 SRM BOOSTER

(RBMS02)

PARAMETRIC VALUES
BETAT .000 ORBINC .500
RUDDER .000 ELEVON .000
RUDLER .300

PHI 180.000 MACH .900
ALPHAT -4.030
SYMBOL 225.000
270.000
315.000



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES



AMES 11-707 :A9 02A + S3 + T9 SRM BOOSTER

(RBMS02)

SYMBOL
○ □ △

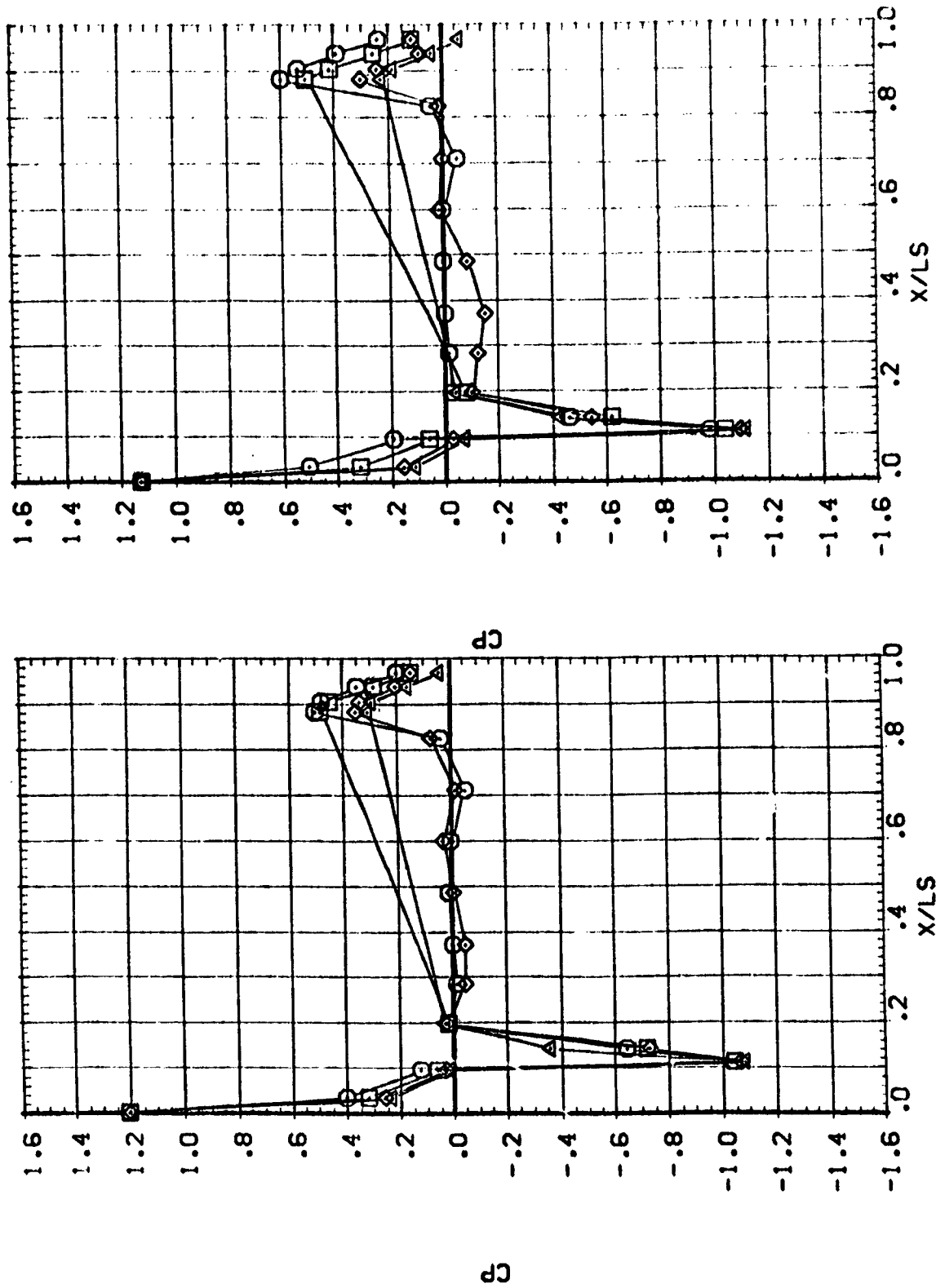
PHI .000
45.000
90.000
135.000

ALPHAT 4.040
8.000

MACH .905

PARAMETRIC VALUES
BETAT .000
RUDDER .000
RUDFLR .000

ORBITAL .500
ELEVON .000



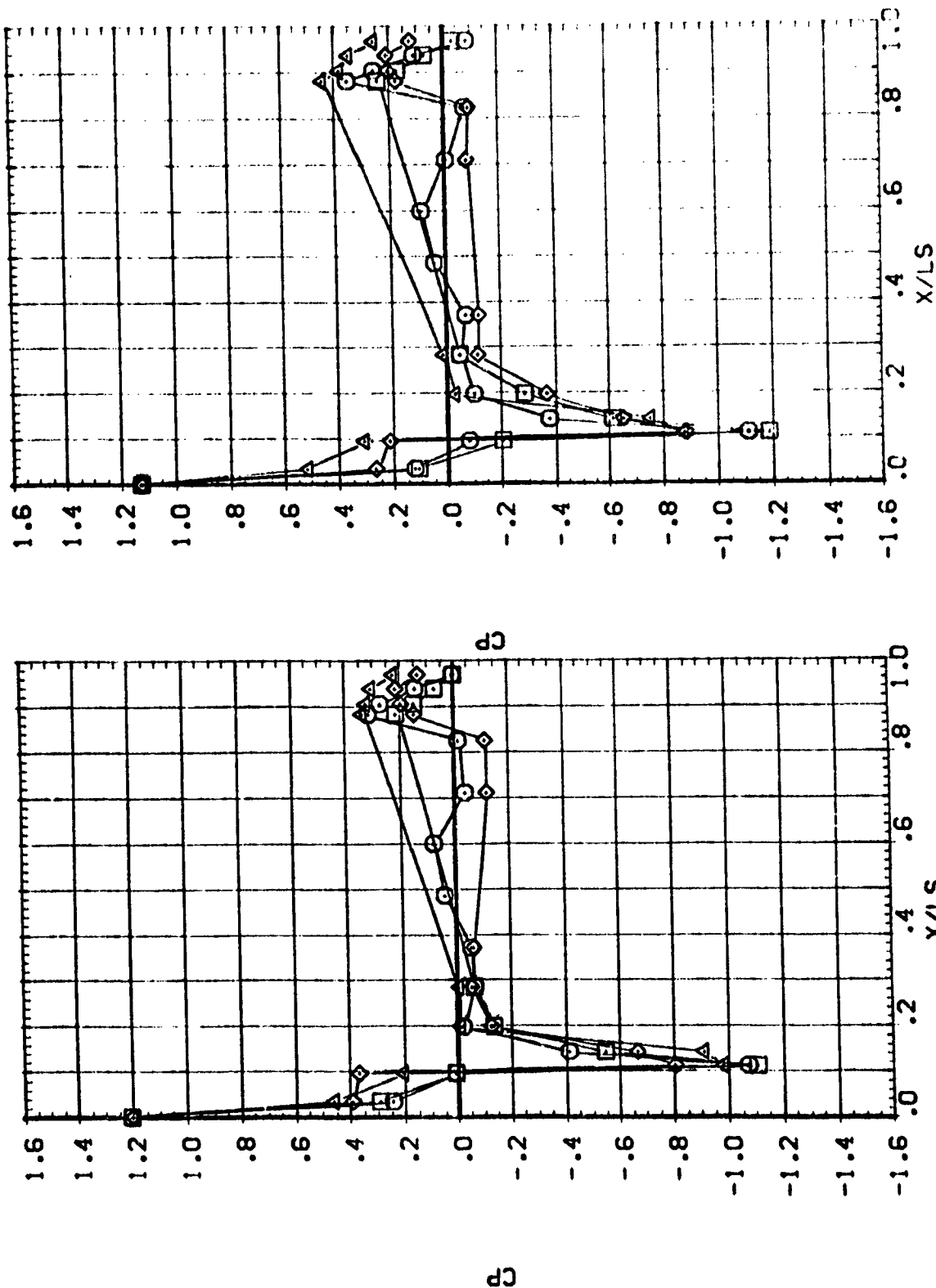
LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES



AMES 11-707 1A9 02A + S3 + T9 SRM BOOSTER

(RBMS02)

SYMBOL	PHI	ALPHA	MACH	PARAMETRIC VALUES			
				BETAT	DRBINC	ELEVEN	SCC
○	180.000	4.040	.905	.000	.000	.000	.000
□	225.000	8.000		.000	.000	.000	.000
◇	270.000			.000			
△	315.000						



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES



AMES 11-707 1A9 02A + S3 + T9 SRM BOOSTER

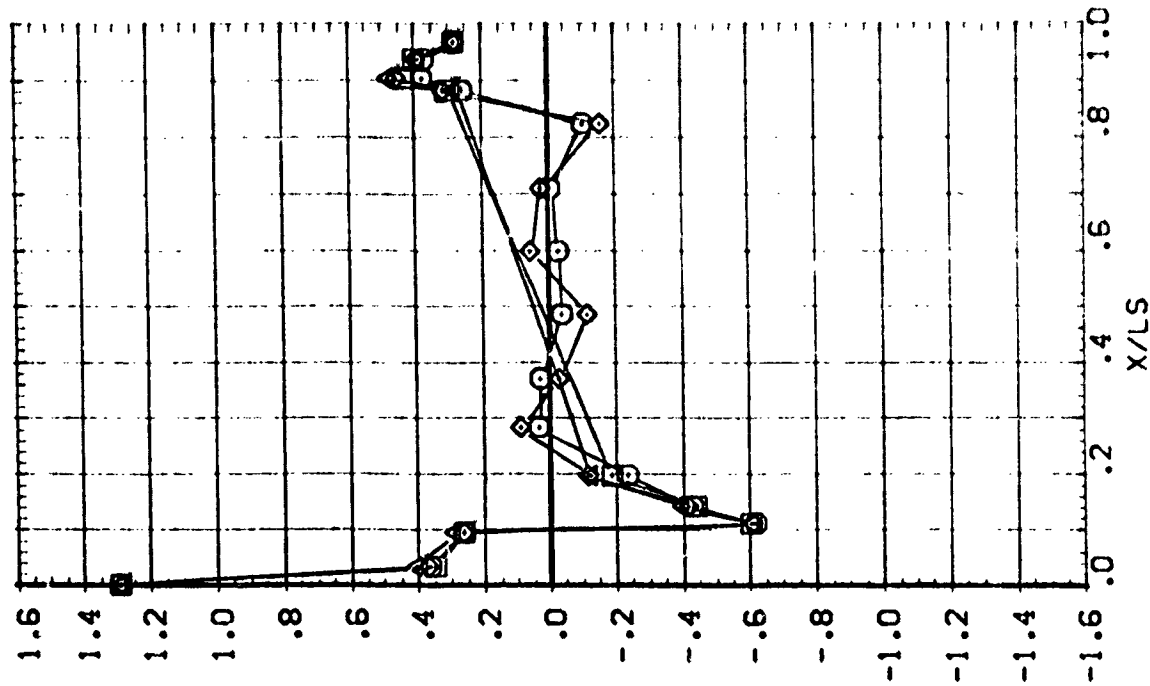
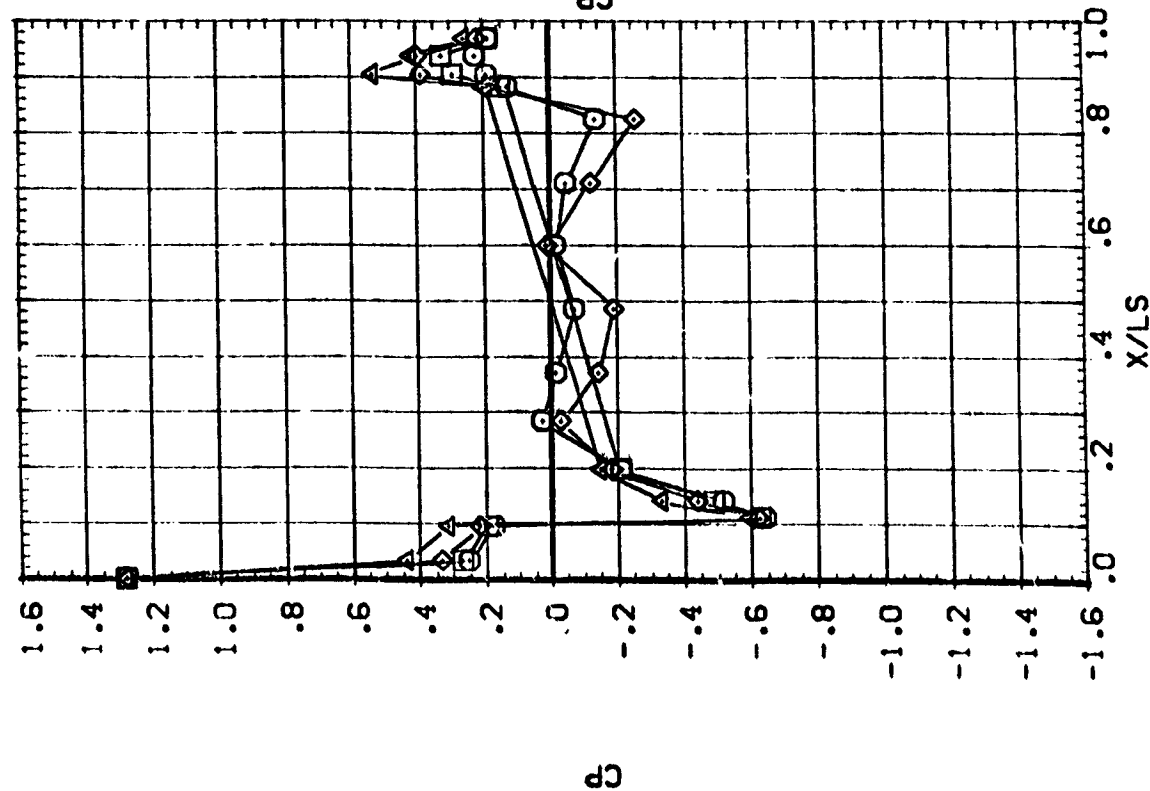
(RBMS02)

SYMBOL
PHI
45.000
90.000
135.000

ALPHA
-4.000
-0.000
-0.000

MACH
1.102

PARAMETRIC VALUES
BETAT
R000R
R000L
R000F
R000E
R000V



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES



AMES 11-707 1A9 02A + S3 + T9 SRM BOOSTER

(RBMS02)

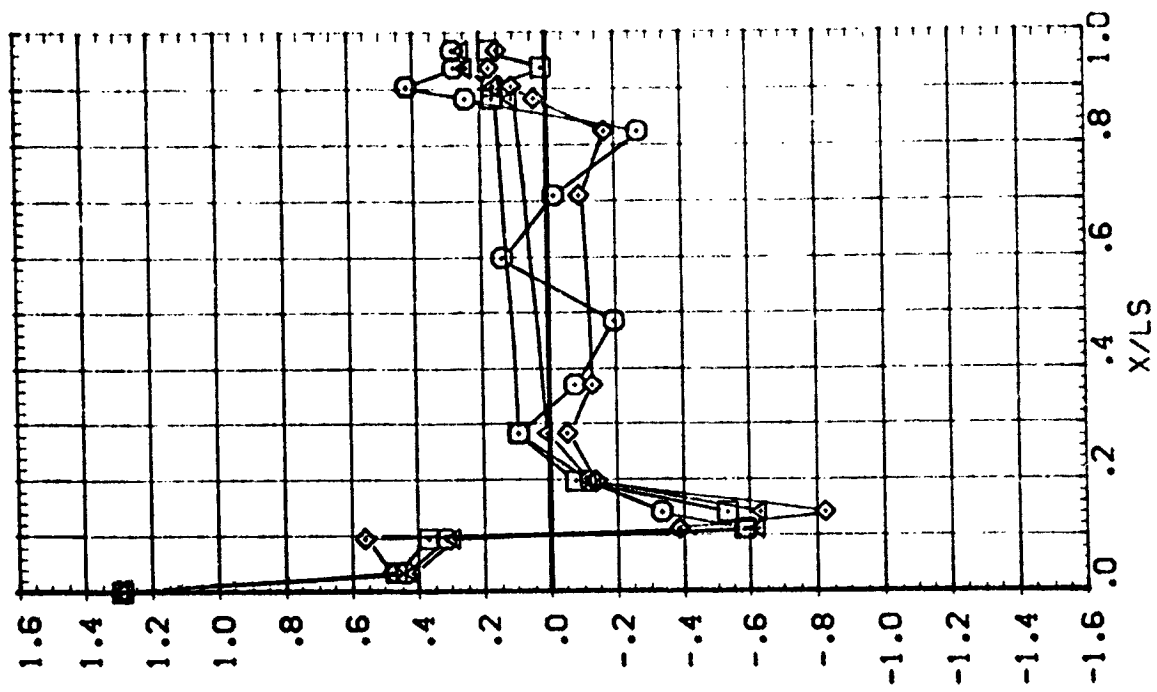
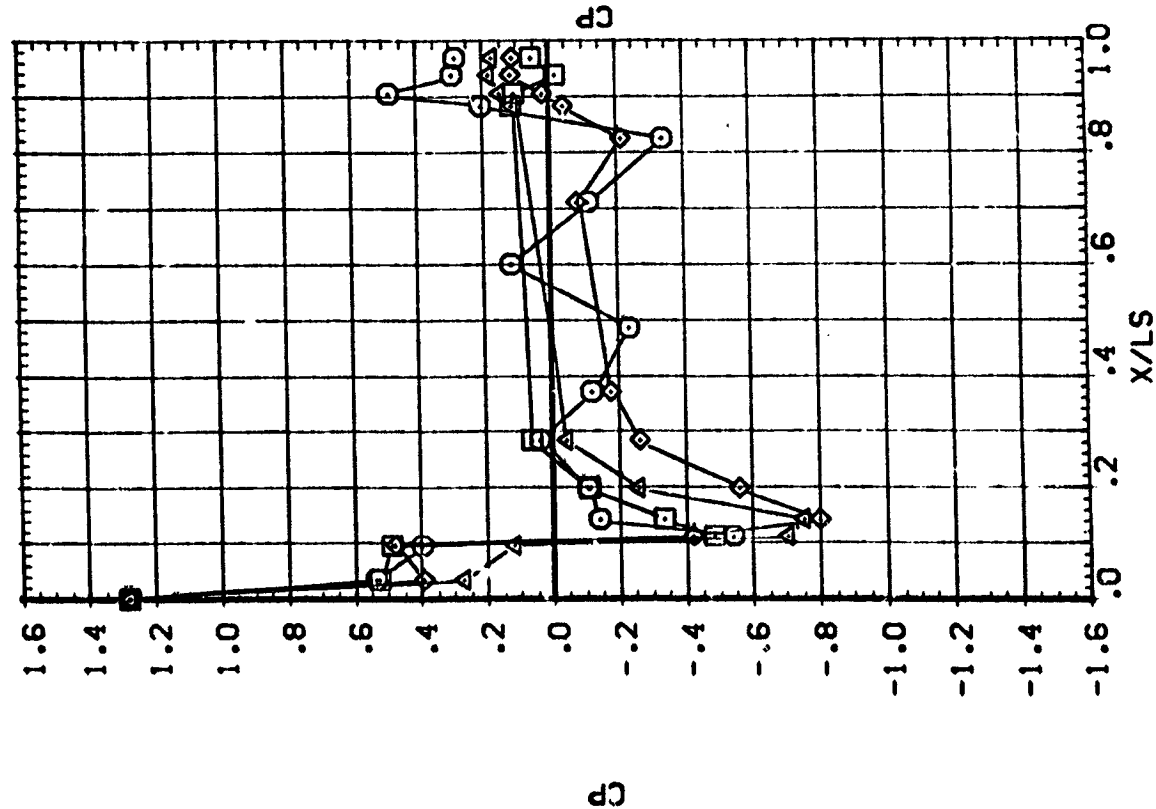
SYMBOL
○ □ ◇ △

PHI 180.000
225.000
270.000
315.000

ALPHAT -4.000
- .030

MACH 1.102

PARAMETRIC VALUES
BETAT .000
RUDDER .000
RUDFLR .000
DRBTNC .500
ELEVON .000



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

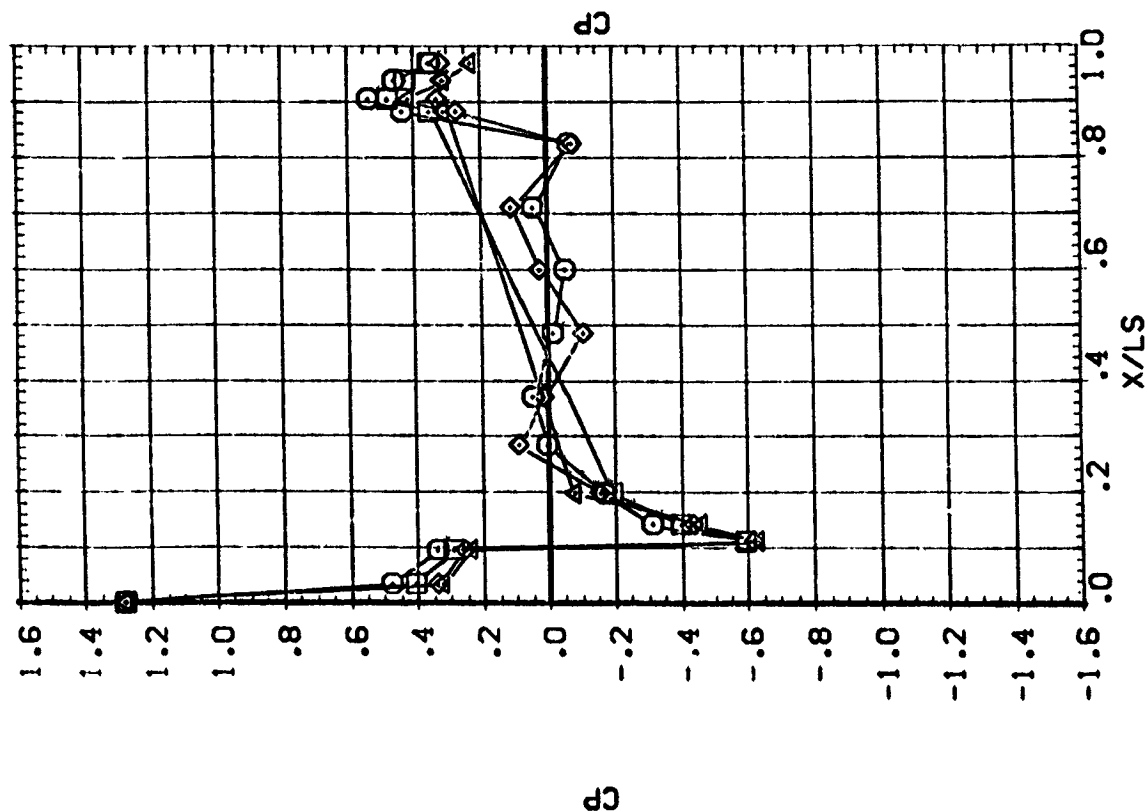
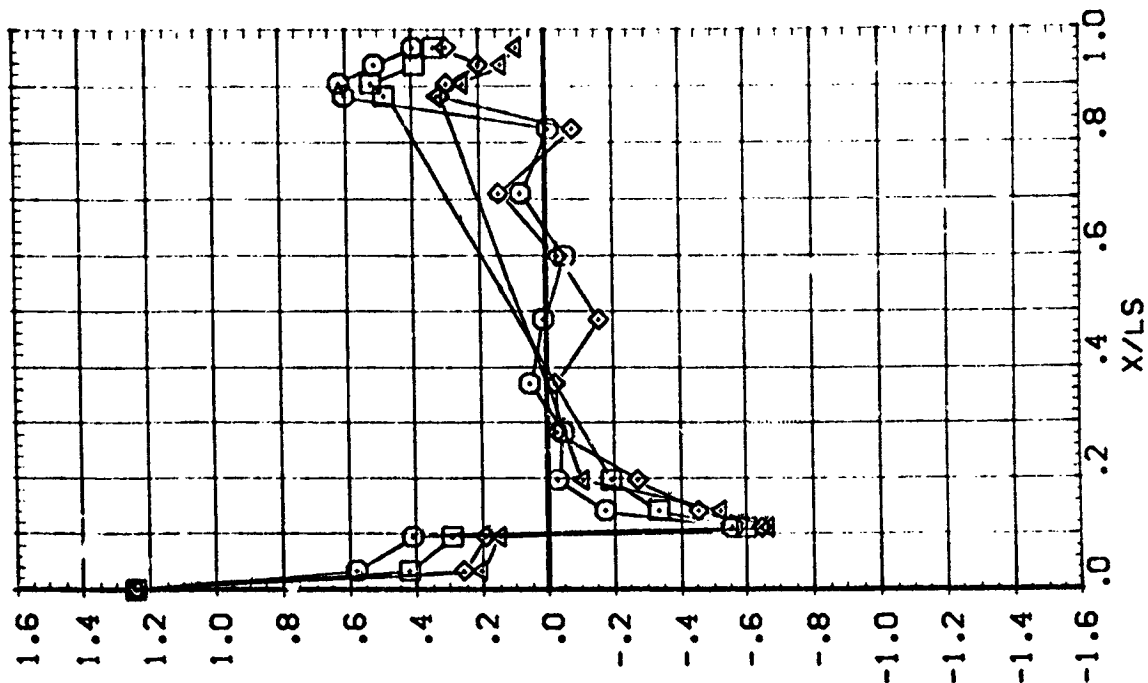
(RBMS02)

AMES 11-707 1A9 02A + S3 + 19 SRM BOOSTER

PARAMETRIC VALUES
 BETAT .000 CRBINC .500
 RJOER .000 ELEVON .000
 RJOFLR .000

PHI .000 ALPHAT MACH
 45.000 3.980 1.102
 90.000 7.940
 135.000

SYMBOL
 O □ ◇ △



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES



AMES 11-707 1A9 02A + S3 + T9 SRM BOOSTER

(RBMS02)

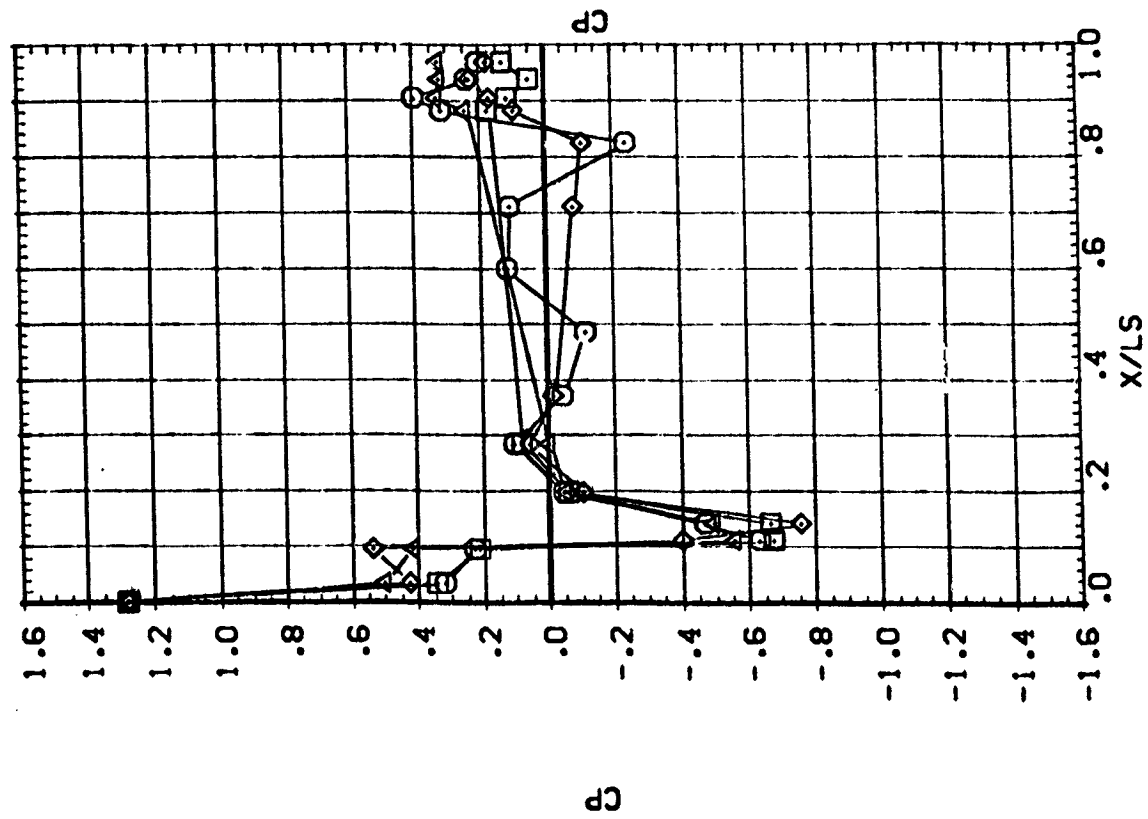
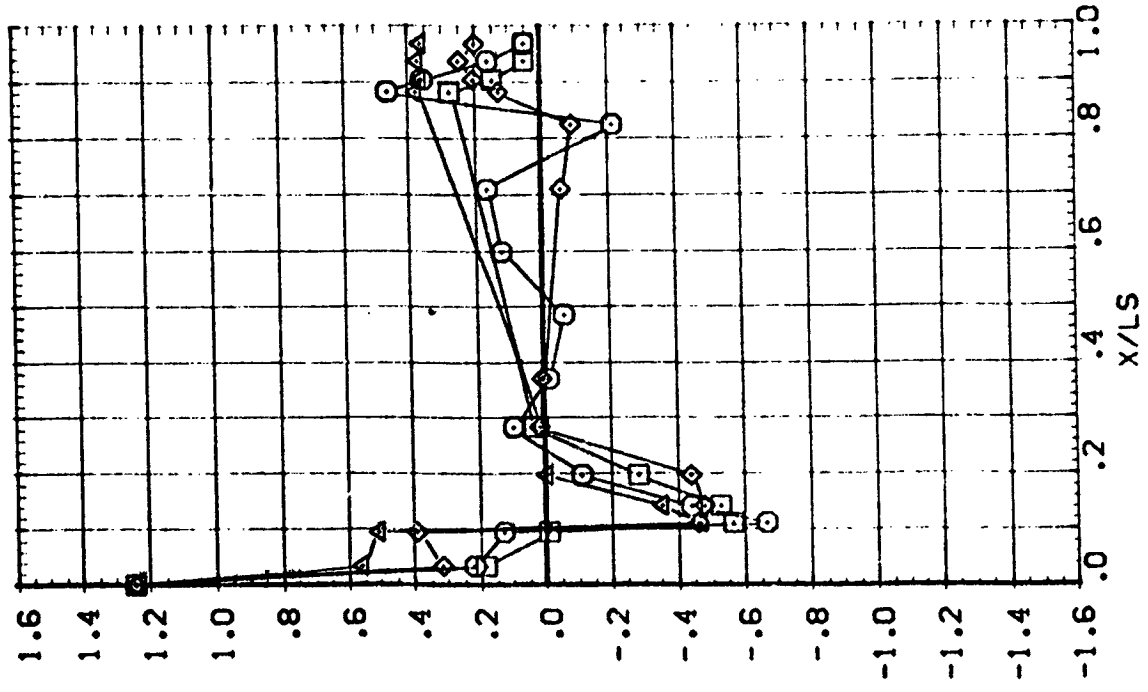
SYMBOL
○
□
◇
△

PHI
180.000
225.000
270.000
315.000

ALPHAT
3.980
7.940

MACH
1.102

PARAMETRIC VALUES
BETAT .000 ORBINC .500
RJOER .000 ELEVON .000
RJOFLR .000



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES



AMES 11-707 1A9 02A + S3 + T9 SRM BOOSTER

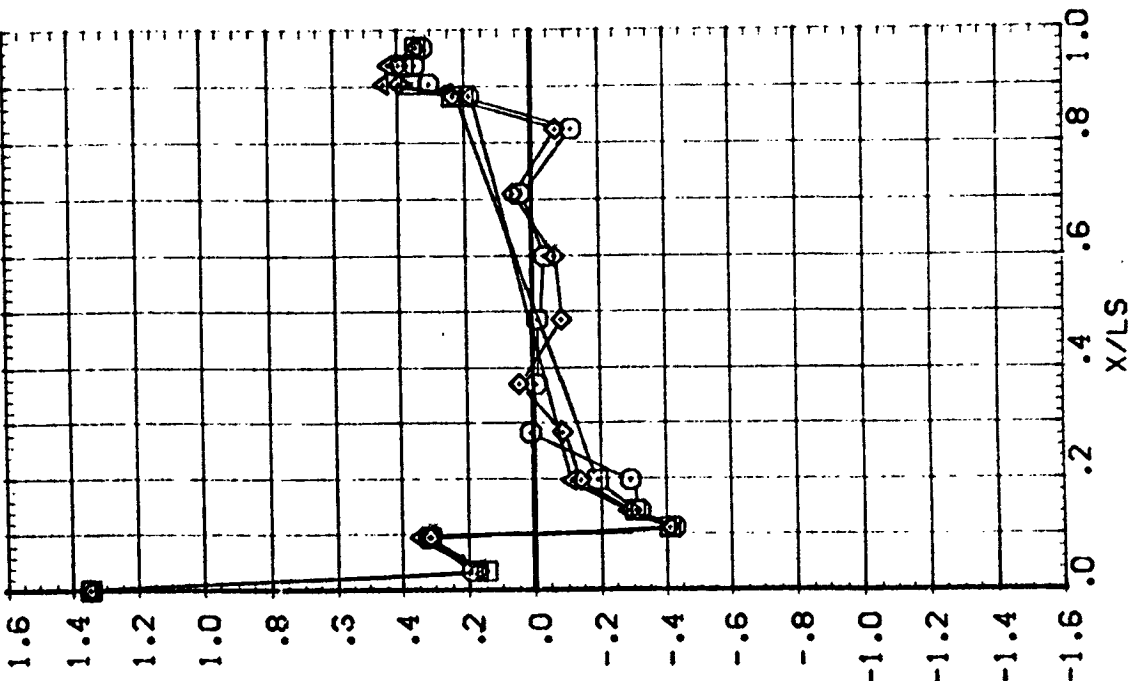
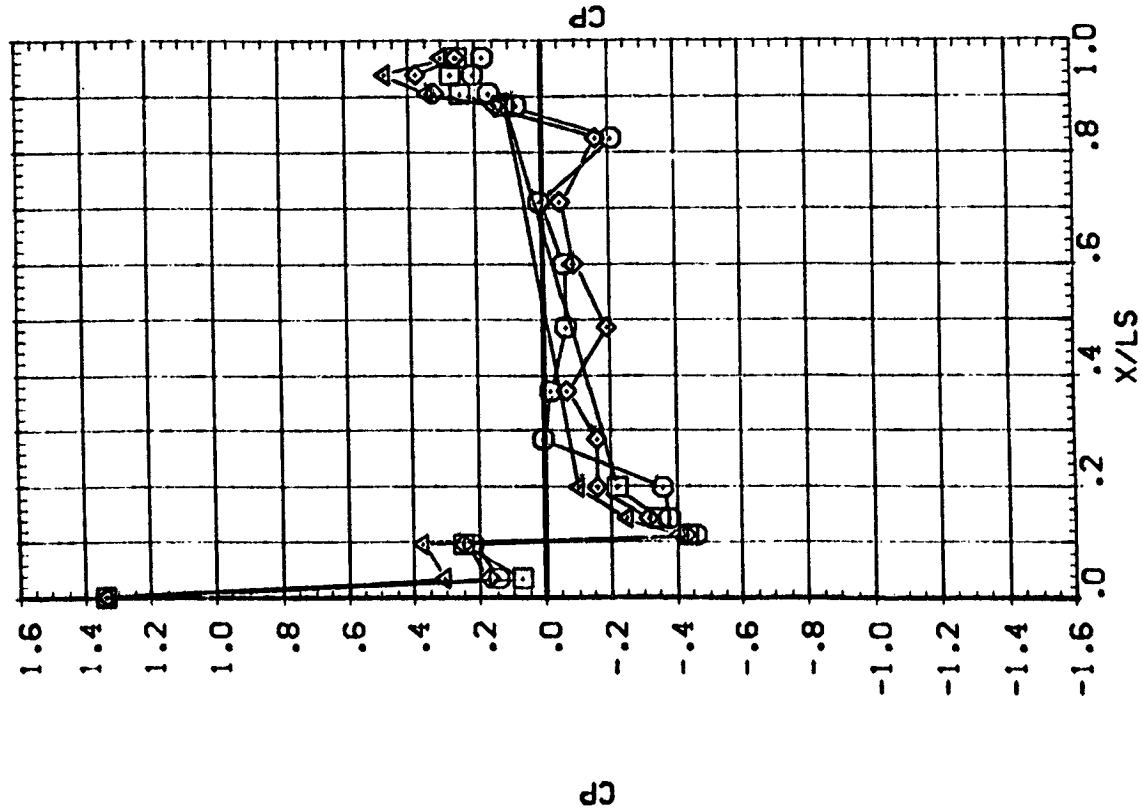
(RBMS02)

SYMBOL
◇ □ △

PH: .000
45.000
90.000
:35.000

ALPHAT MACH
-3.980 1.249
.040

PARAMETRIC VALUES
BETAT .000 GRBINC .500
RLODER .000 ELEVEN .000
RLOFLR .000



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES



AMES 11-707 1A9 02A + S3 + T9 SRM BOOSTER

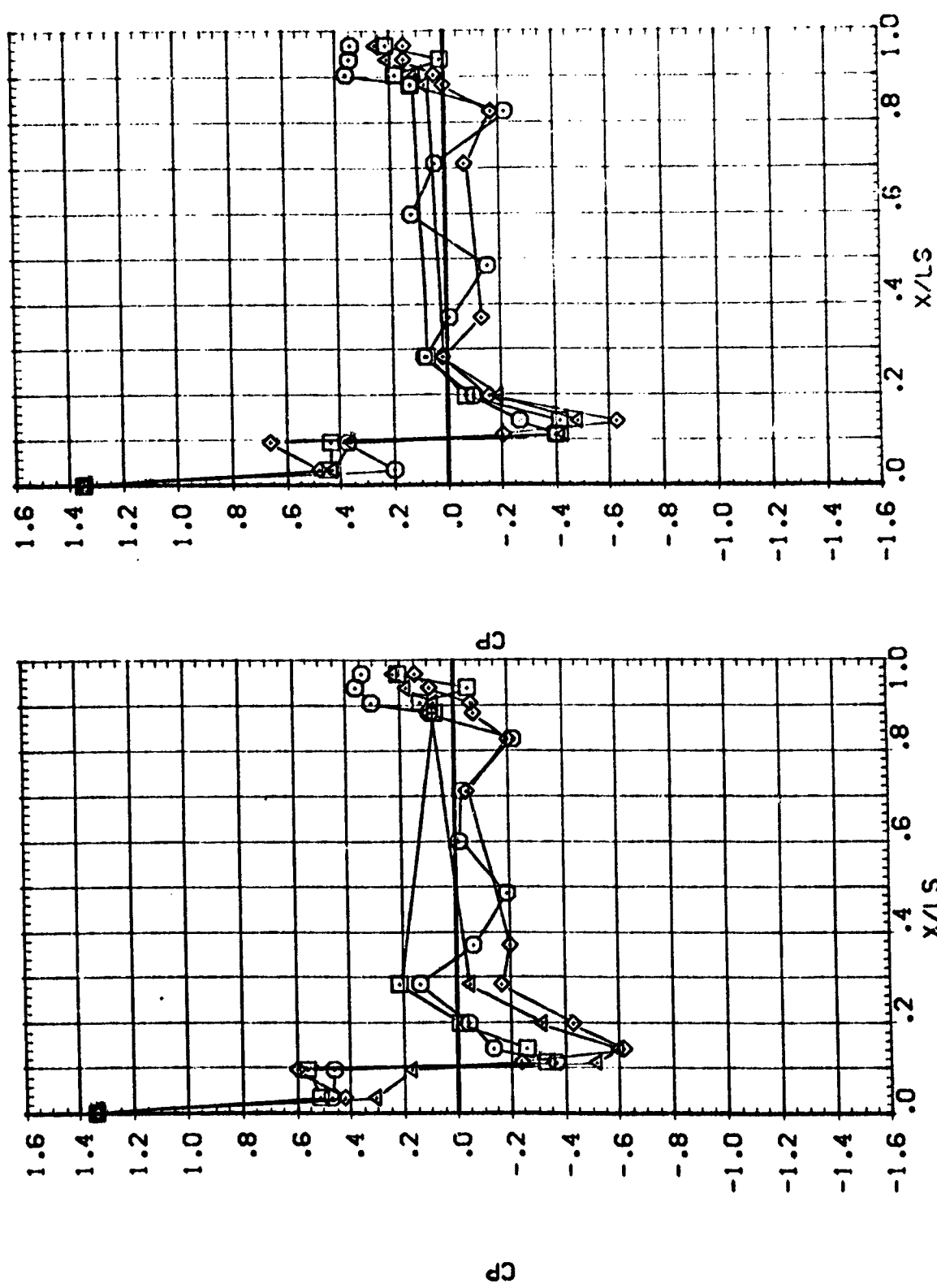
(RBMS02)

PHI 180.000
225.000
270.000
315.000

ALPHAT -3.980
MACH 1.249
.040

BETAT .000
R-DOER .000
R-DOFLR .000

PARAMETRIC VALUES
ORBITC .500
ELEVON .000



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES



AMES 11-707 1A9 02A + S3 + T9 SRM BOOSTER (RBMS02)

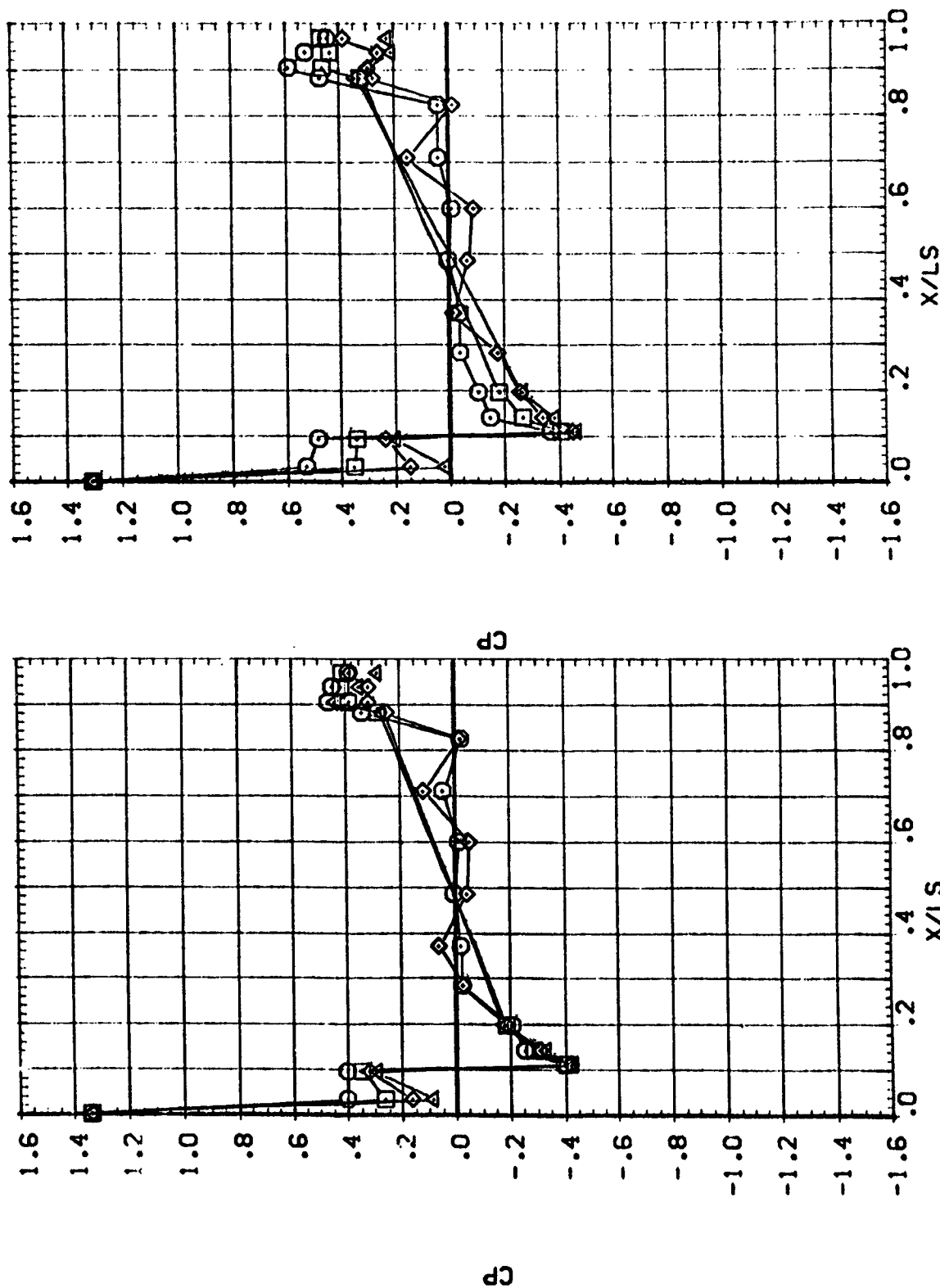
SYMBOL
O
□
◇
△

PHI
.000
45.000
90.000
135.000

ALPHAT
3.970
7.980

MACH
1.245

PARAMETRIC VALUES
BETAT .000 ORBINC .500
RUDDER .000 ELEVSN .000
RUOFLR .000

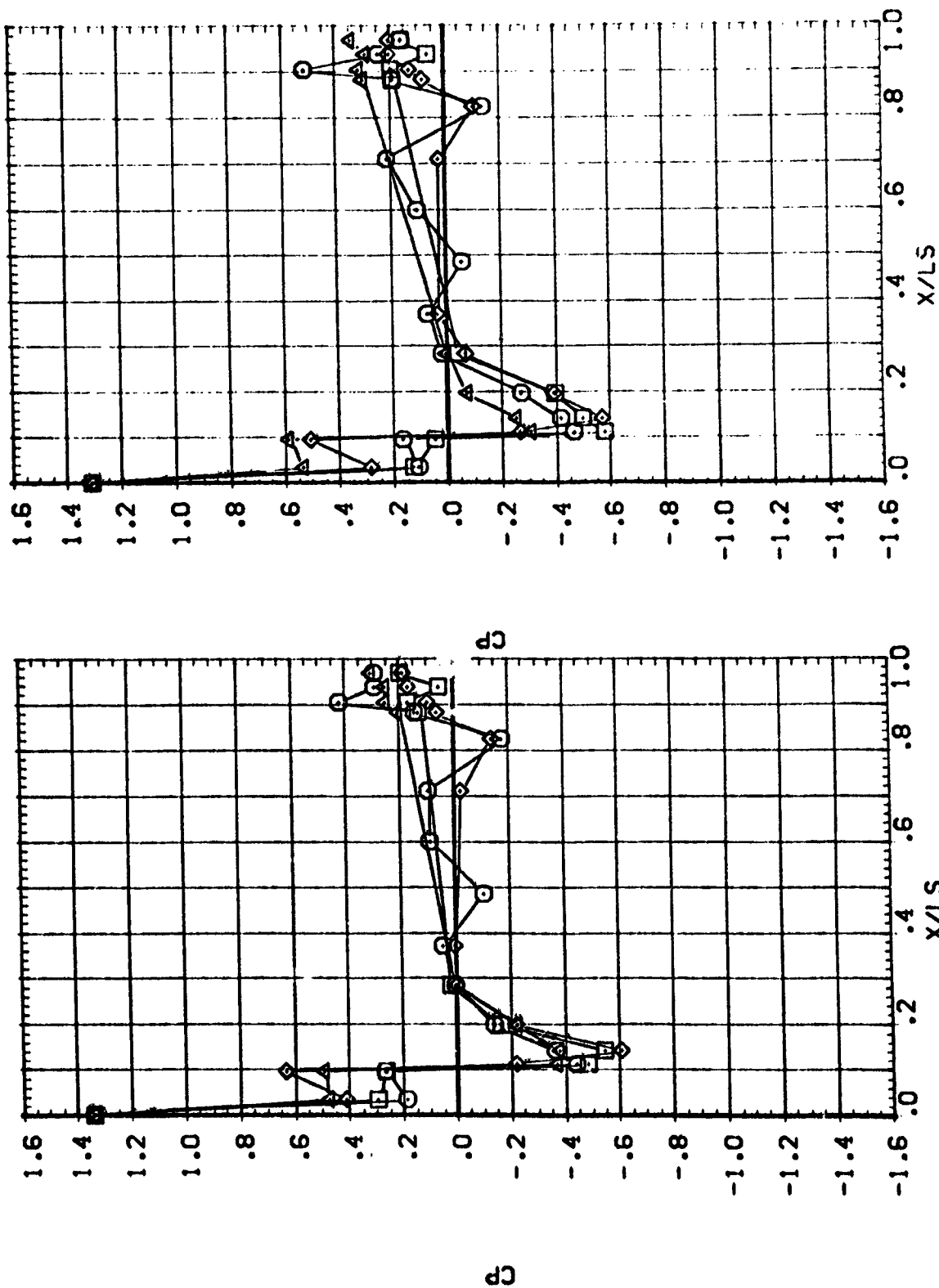


LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES



AMES 11-707 1A9 02A + S3 + T9 SRM BOOSTER (RBMS02)

SYMBOL	PHI	ALPHAT	MACH	PARAMETRIC VALUES			
				BETAT	.000	ORBITC	.000
○	180.000	3.970	1.245	RJODER	.000	ELEVON	.000
◇	275.000	7.980		RJOFLR	.000		
△	315.000						



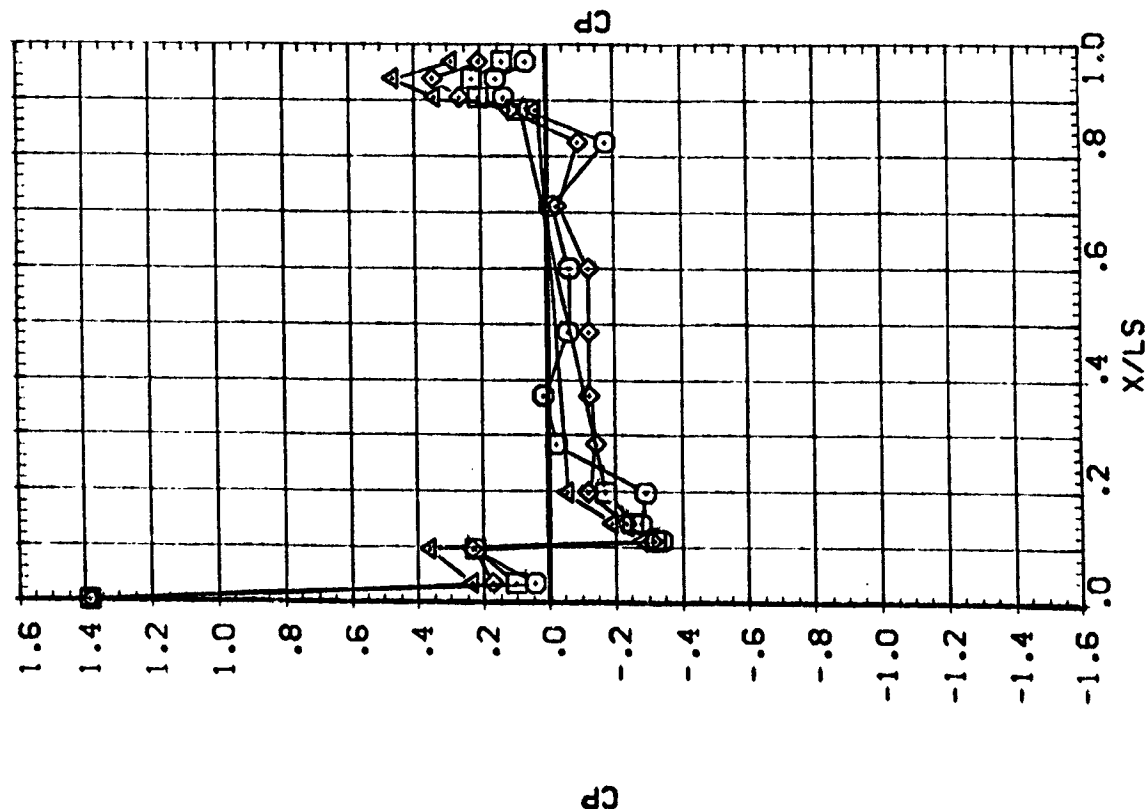
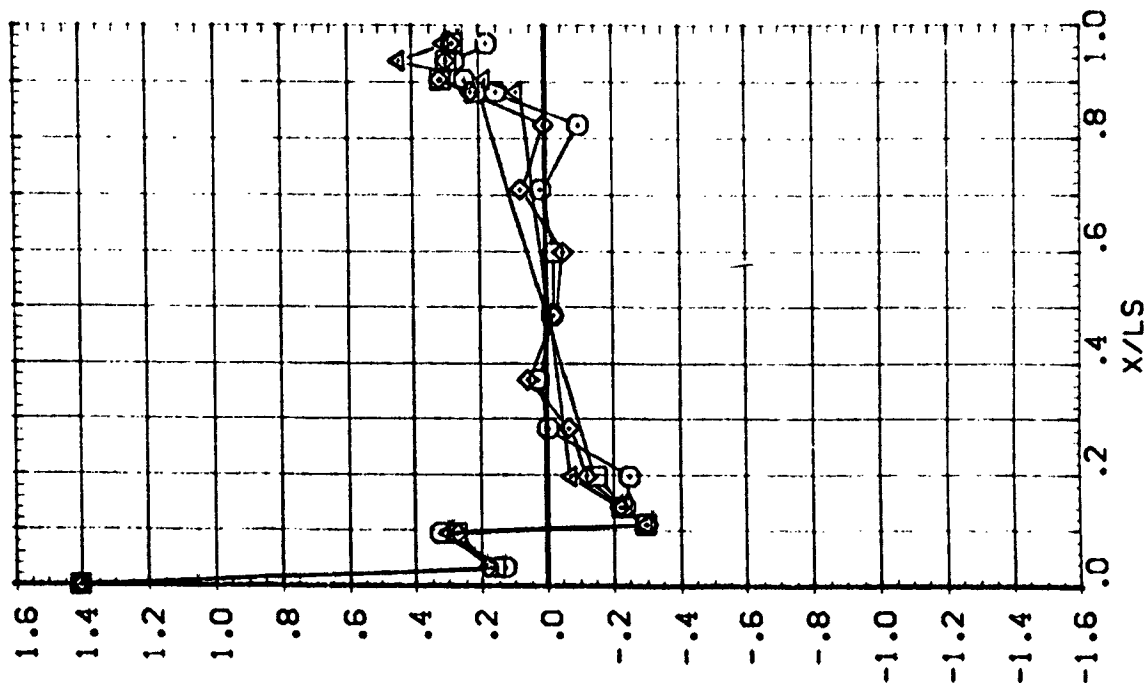
LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

(RBMS02)

AMES 11-707 1A9 02A + S3 + T9 SRM BOOSTER

PARAMETRIC VALUES
 BETAT .000 CRBINC .500
 RUDDER .000 ELEVON .000
 RUOFLR .000

SYMBOL P-1 ALPHAT MACH
 .000 -3.980 1.396
 45.000
 90.000
 135.000



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES



AMES 11-707 1A9 02A + S3 + T9 SRM BOOSTER

[RBMS02]

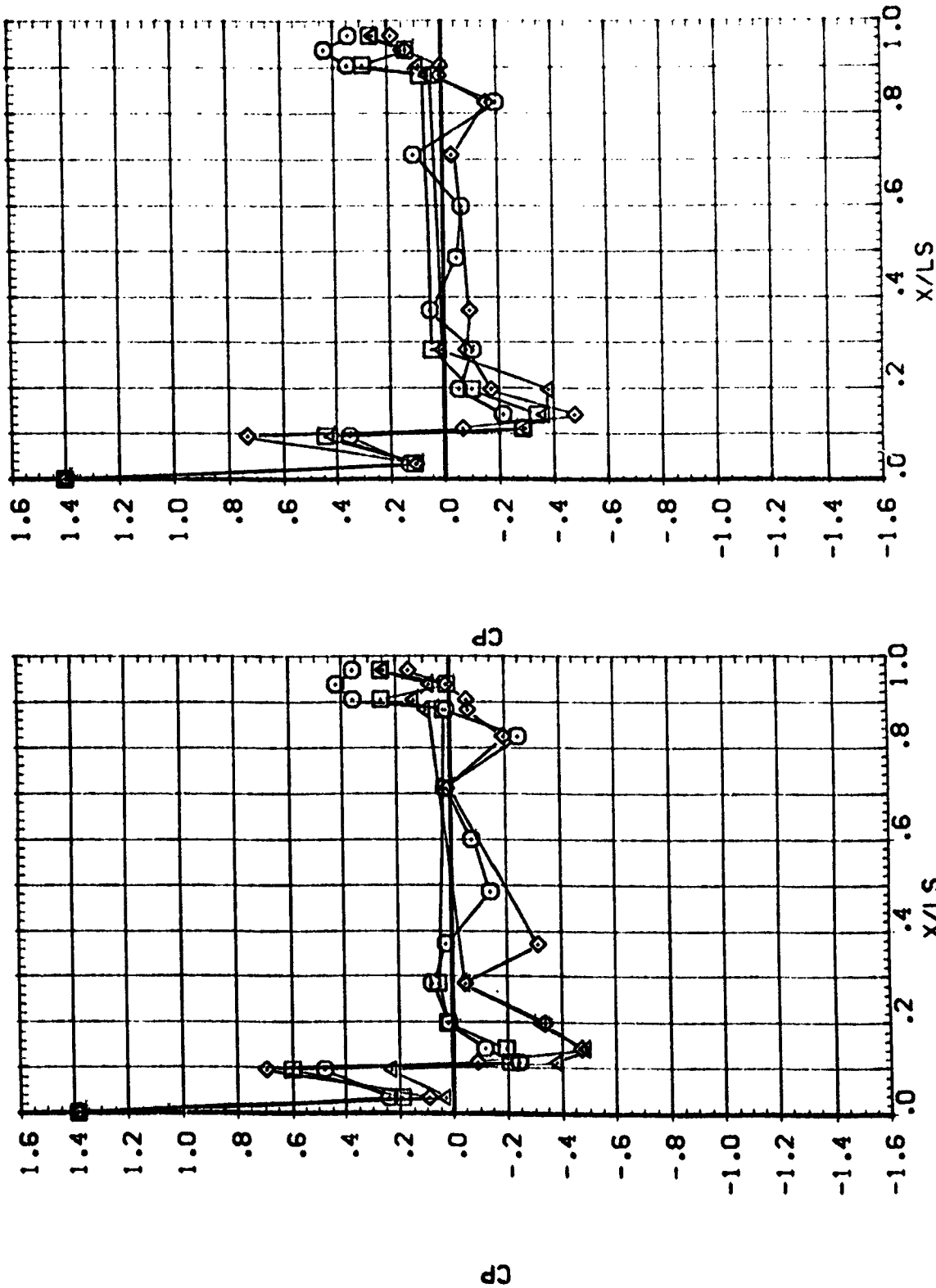
SYMBOL
○ □ ◇ △

PHI 180.000
275.000
270.000
315.000

ALPHAT -3.980
.040

MACH 1.396

PARAMETRIC VALUES
BETAT .000 ORBINC .500
RUDDER .000 ELEVON .000
RUDDER .000



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

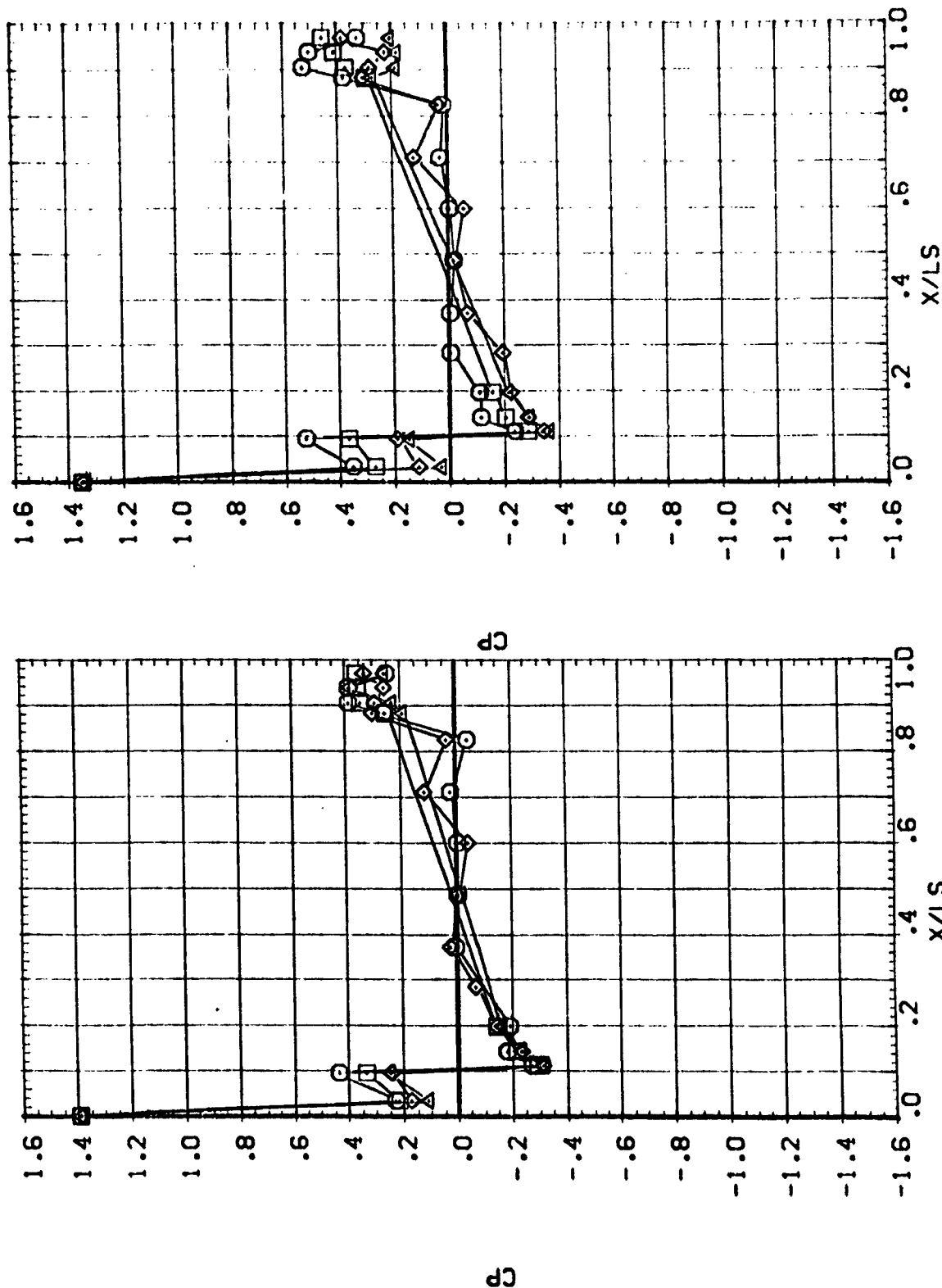
AMES 11-707 1A9 02A + S3 + T9 SRM BOOSTER

(RBMS02)

SYMBOL
O
□
◇
△

PHI: .000 3.950 7.990
45.000 90.000 135.000
ALPHA: MACH
1.394

PARAMETRIC VALUES
BETA: .000 .000 .000
RUDDER .000 .000 .000
RUDDER .000 .000 .000



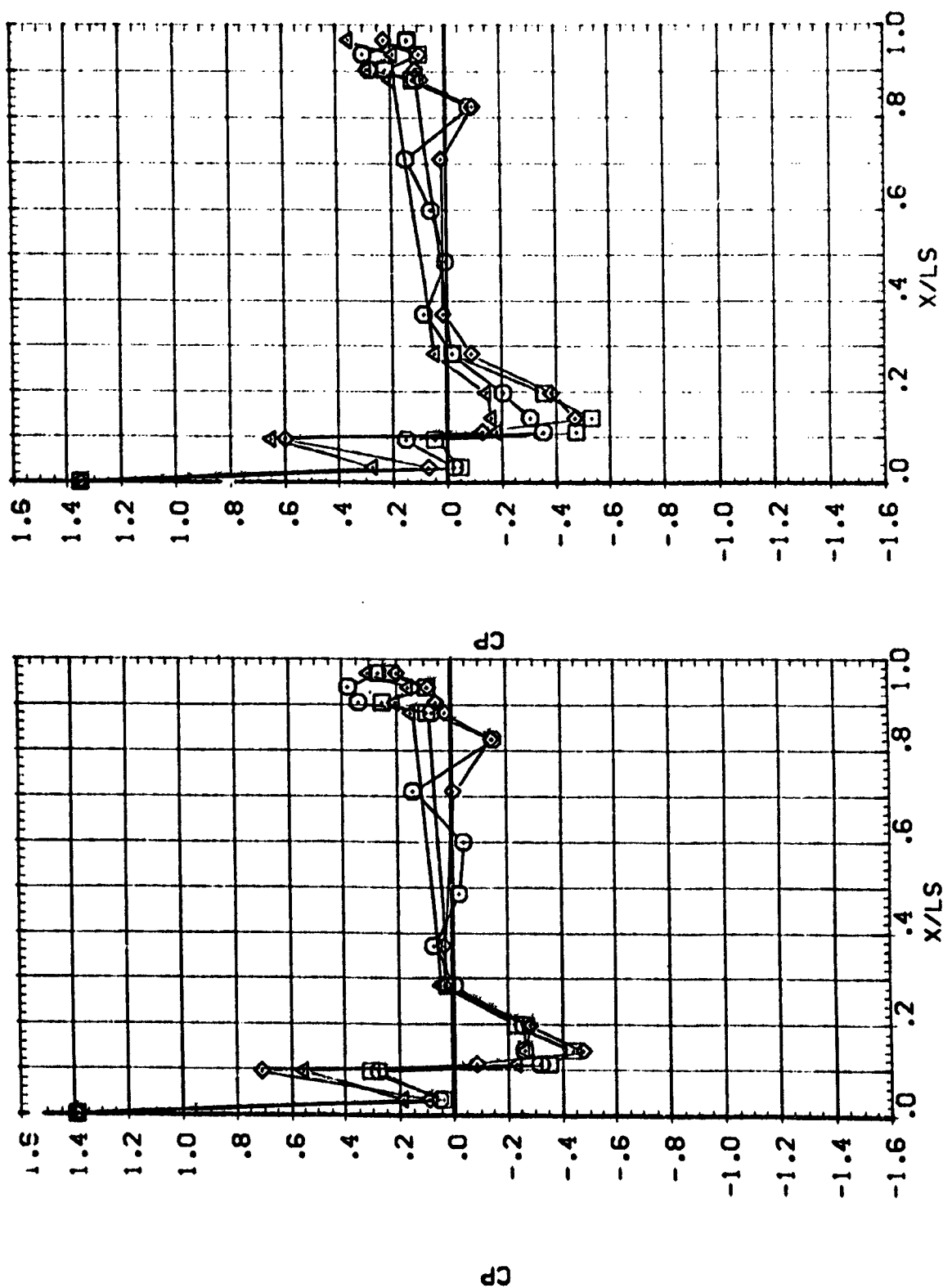
LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES



AMES 11-707 1" 32A + S3 + T9 SRM BOOSTER

(RBMS02)

SYMBOL	PHI	ALPHAT	MACH	PARAMETRIC VALUES			
				BETAT	ORBIT	ELEVON	
○	180.000	3.980	1.394	.000	.000	.000	.500
□	225.000	7.980		.000	.000	.000	.000
◇	270.000			.000			
△	315.000						

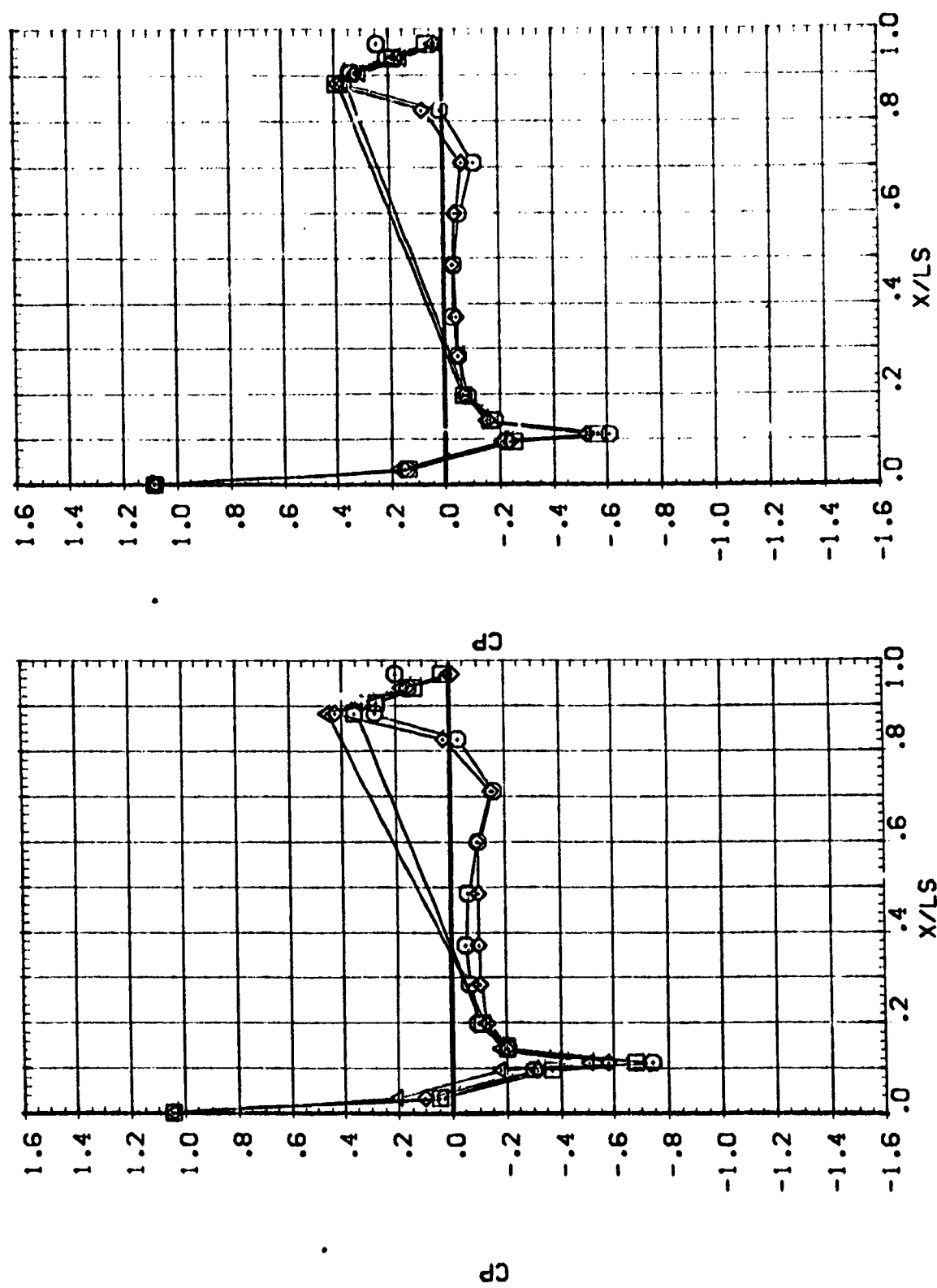


LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES



AMES 11-707 1A9 02A + S3 + T9 SRM BOOSTER (RBMS44)

SYMBOL	PHI	ALPHA	MACH	BETA	ORBIT	ELEV
○	.000	-3.950	.598	.000	.000	-1.200
□	45.000	.000		.000	.000	.000
◇	90.000					
△	135.000					



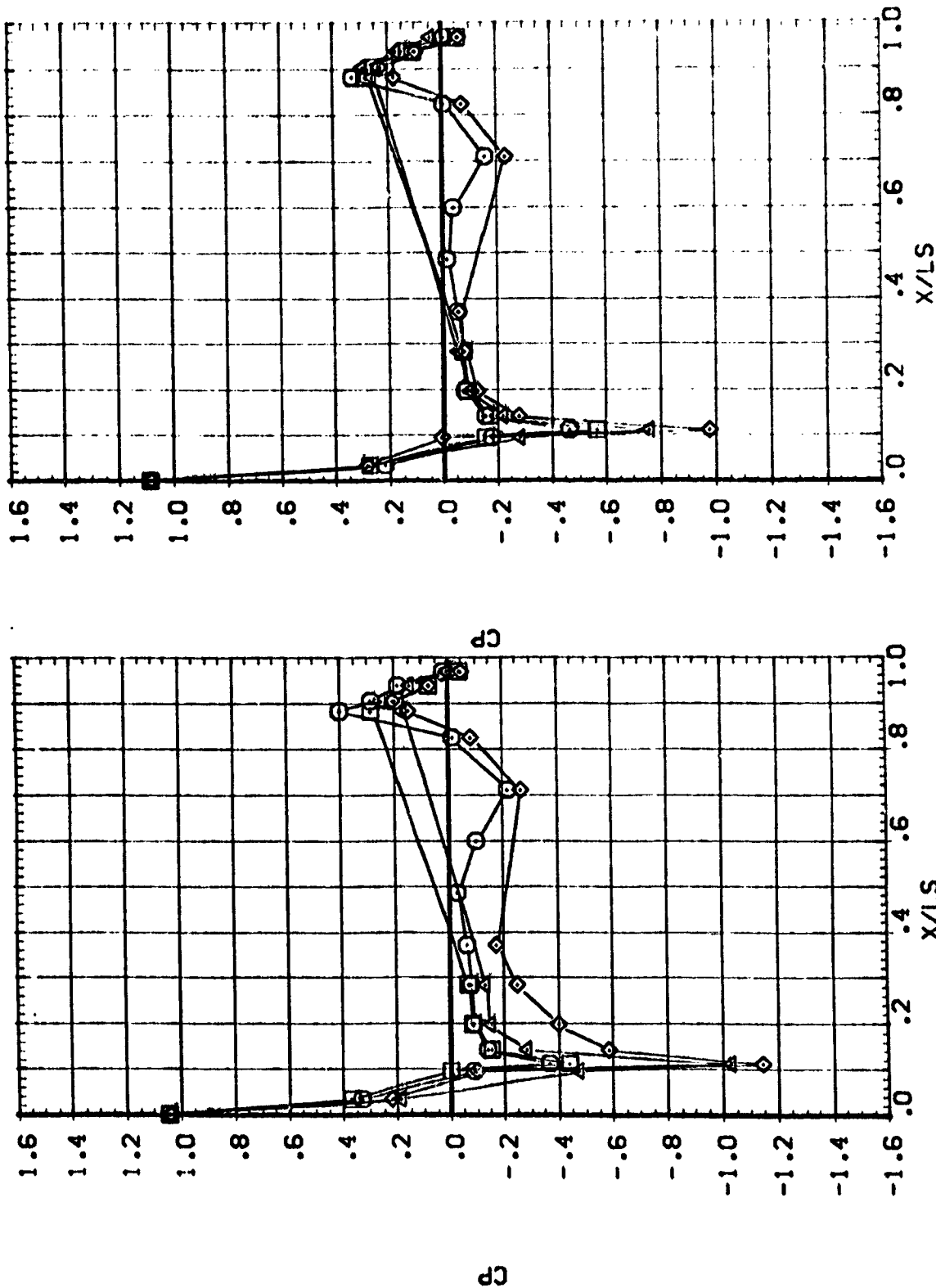
LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES



AMES 11-707 1A9 02A + S3 + T9 SRM BOOSTER

(RBMS444)

SYMBOL	PHI	ALPHA	MACH	BETAT	ORBIT	ELEVON	PARAMETRIC VALUES
○	180.000	-3.950	.598	.000	.000	.000	-1.200
□	225.000	.050		.000	.000	.000	
◇	270.000			.000			
△	315.000						



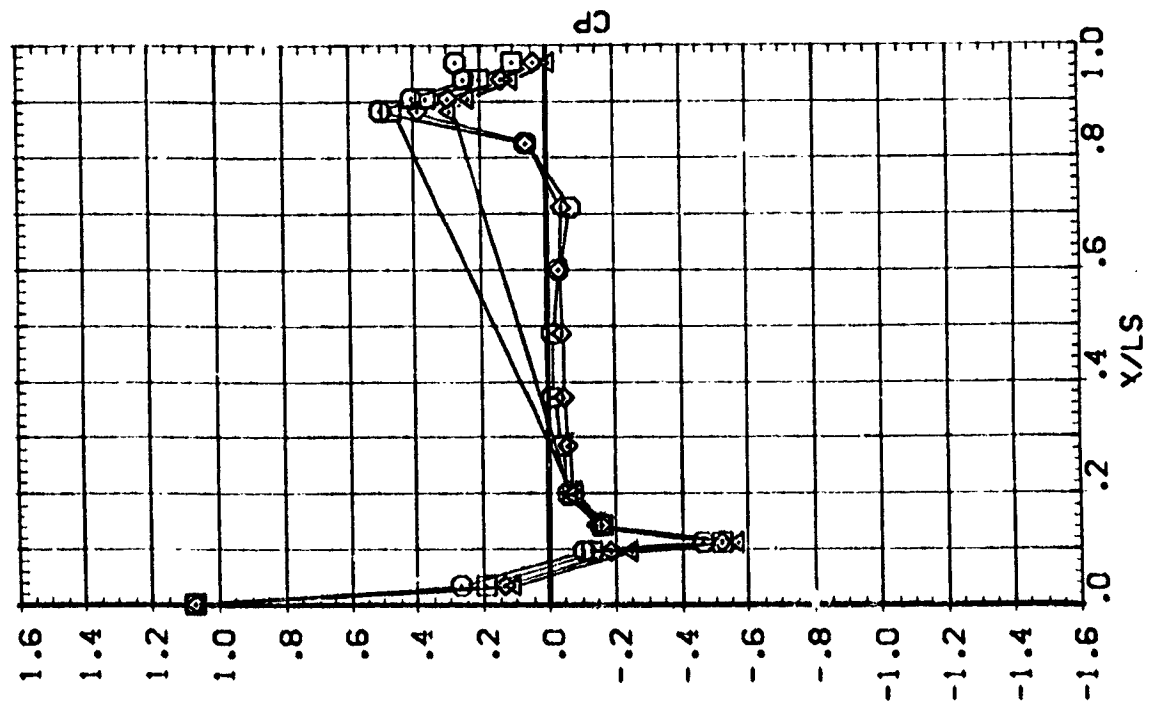
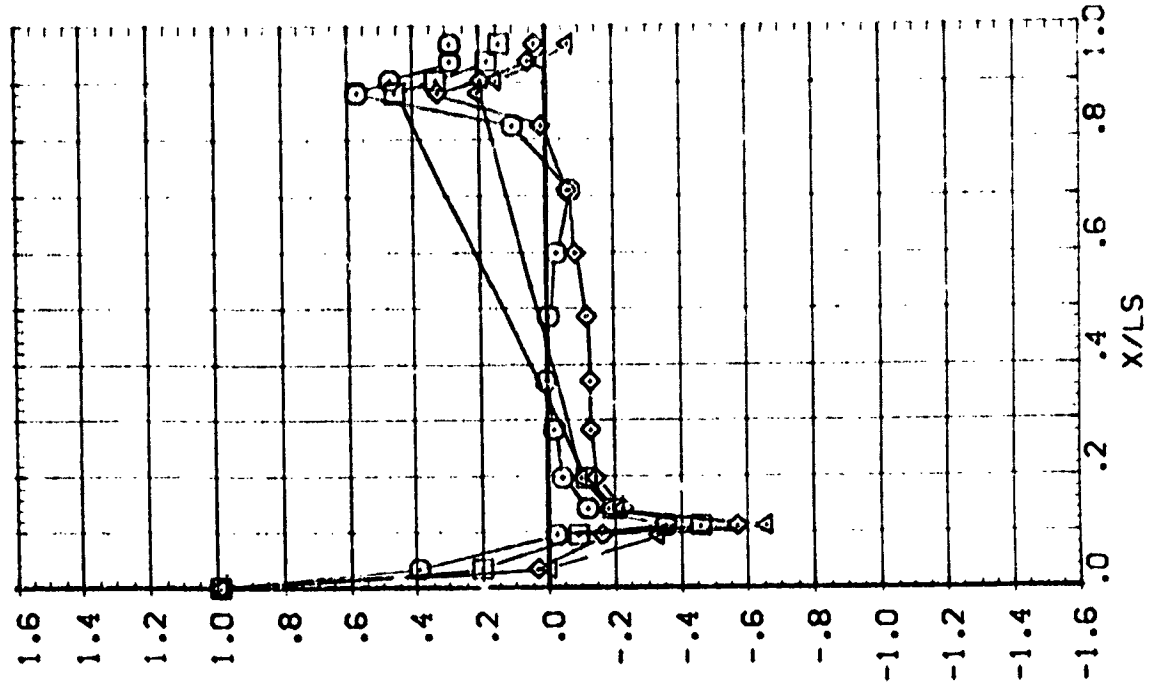
LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

AMES 11-707 1A9 02A + S3 + T9 SRM BOOSTER

(RBMS44)

PARAMETRIC VALUES
 BETAT .000 ORBINC -1.200
 RUDDER .000 ELEVON .000
 RUOFLR .000

SYMBOL ALPHAT MACH
 () .000 4.010 .600
 O 45.000 8.020
 Δ 90.000
 Δ 135.000



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

(RBMS44)

AMES 11-707 IAS 02A + S3 + T9 SRM BOOSTER

SYMBOL
○ □ ◇ △

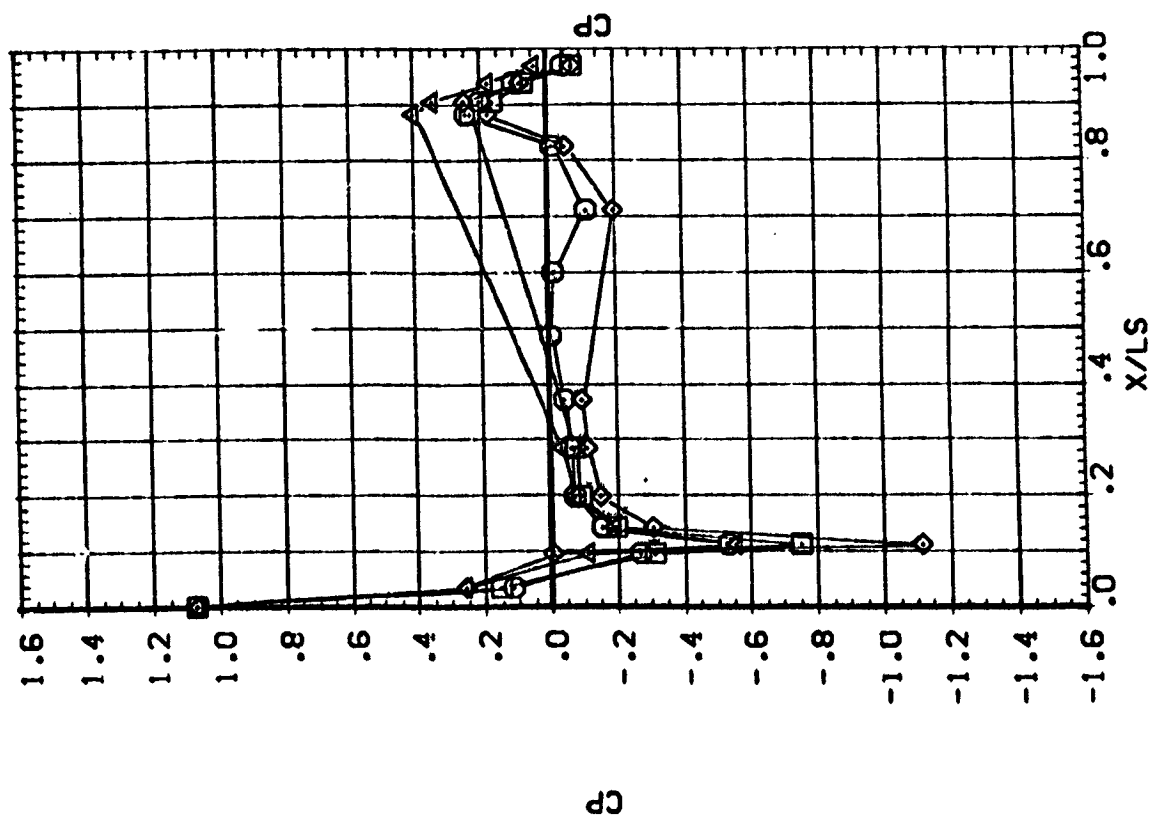
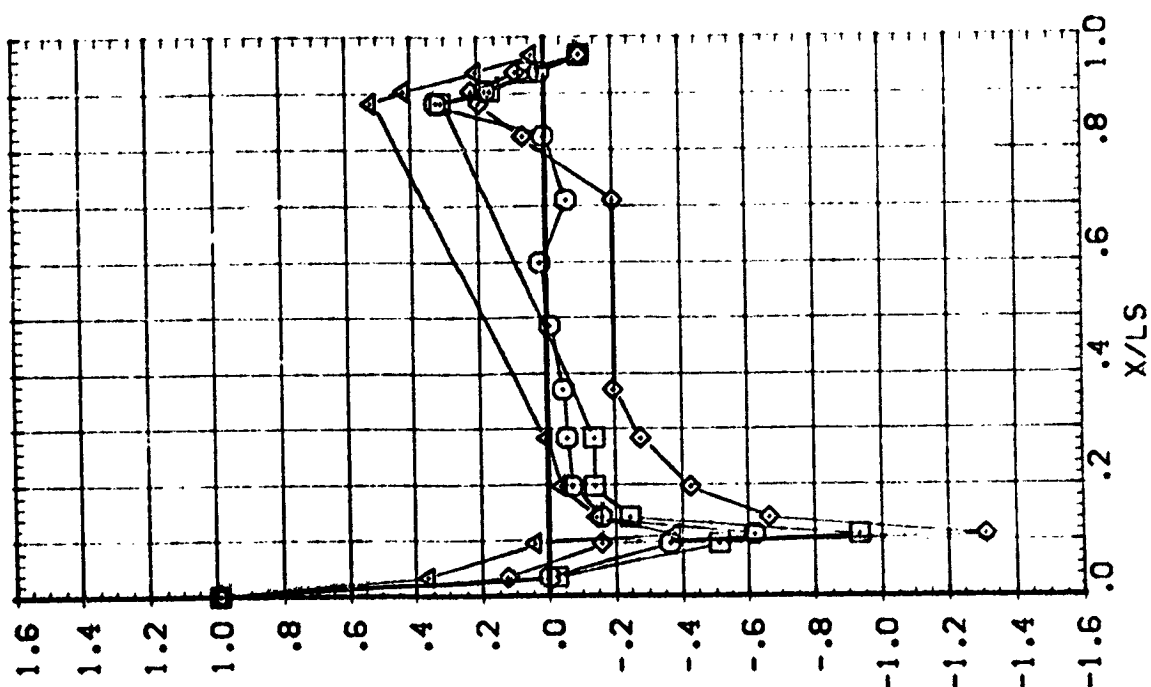
PMI 180.000
225.000
270.000
315.000

ALPHA 4.010
8.020

MACH .600

PARAMETRIC VALUES
BETAT .000
RDOER .000
RDOFLR .000

CRBINC -1.200
ELEVN .000



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES



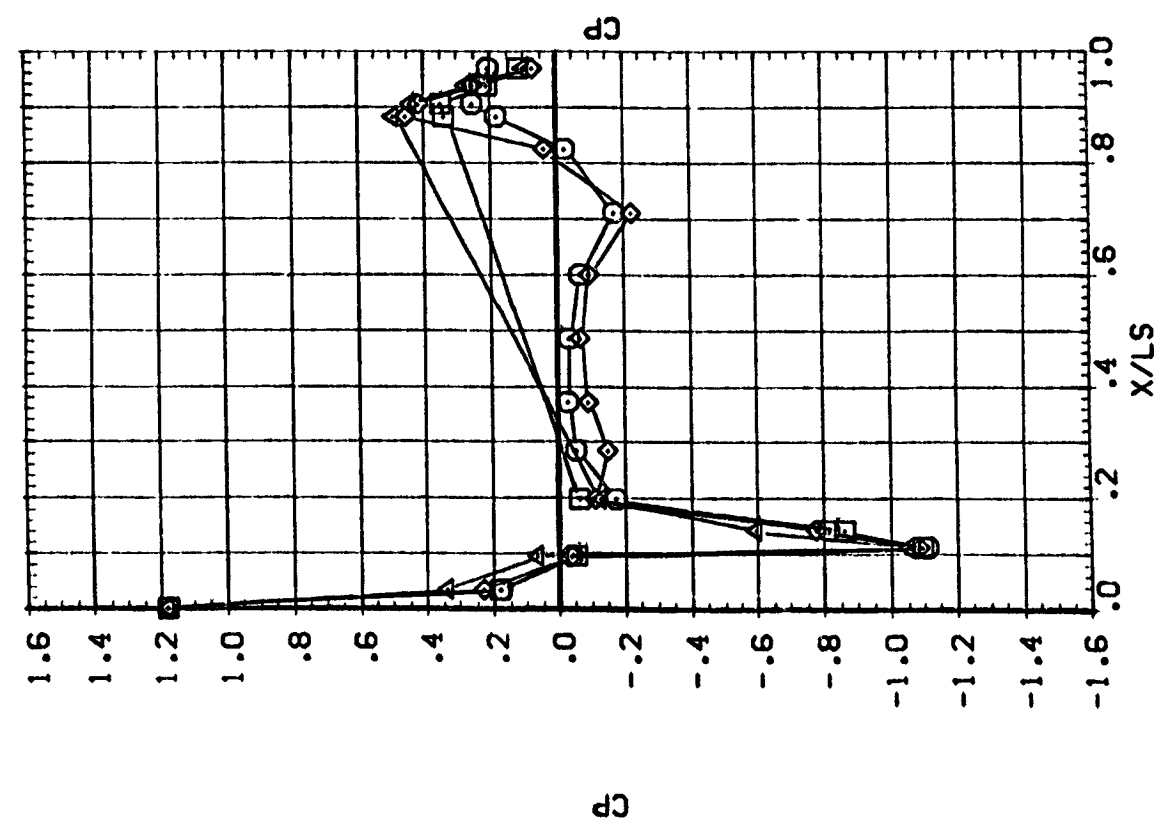
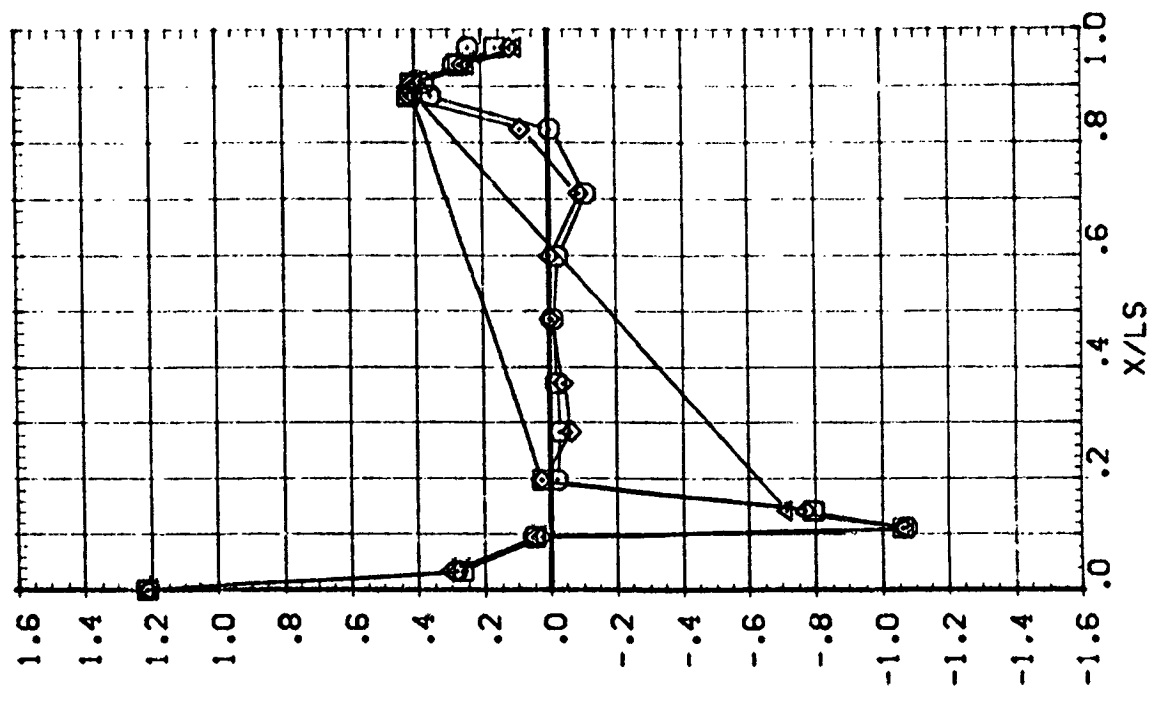
(RBMS44)

AMES 11-707 1A9 02A + S3 + T9 SRM BOOSTER

PARAMETRIC VALUES
BETAT .000 CRBINC -1.200
RUDGER .000 ELEVON .000
RUDFLR .000

PH. .000 ALPHAT MACH .899
45.000 -4.020 .010
90.000
135.000

SYMBOL
□ ◇ △



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

(RBMS44)

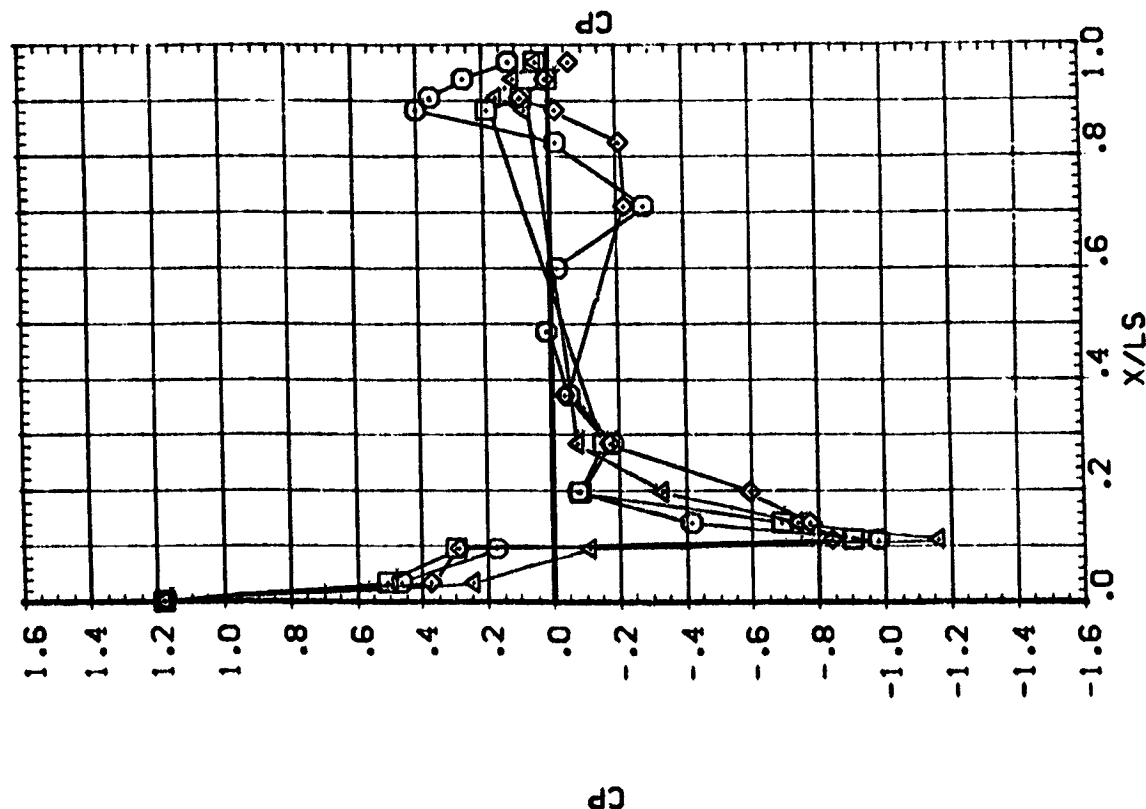
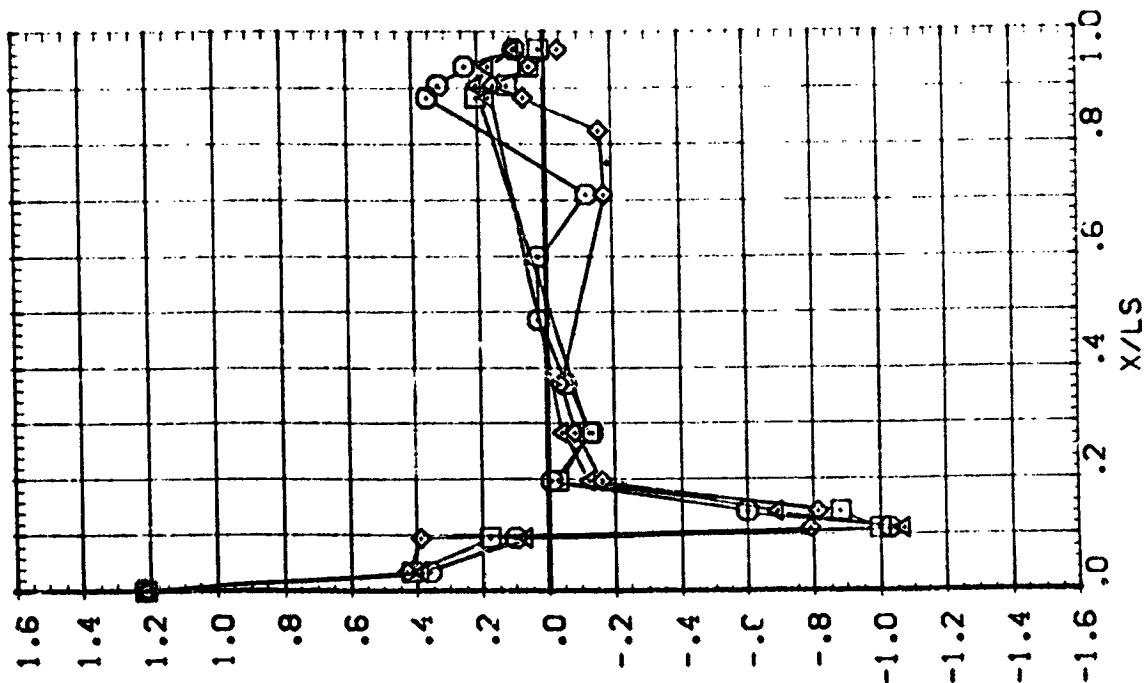
AMES 11-707 1A9 02A + S3 + T9 SRM BOOSTER

SYMBOL

180.000
225.000
270.000
315.000

PHI
ALPHAT
MACH
-4.020
.010
.899

PARAMETRIC VALUES
BETAT
RJOEP
RJOFLR
.000
.000
.000
-1.200
.000



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES



AMES 11-707 1A9 02A + S3 + T9 SRM BOOSTER

(RBMS44)

SYMBOL

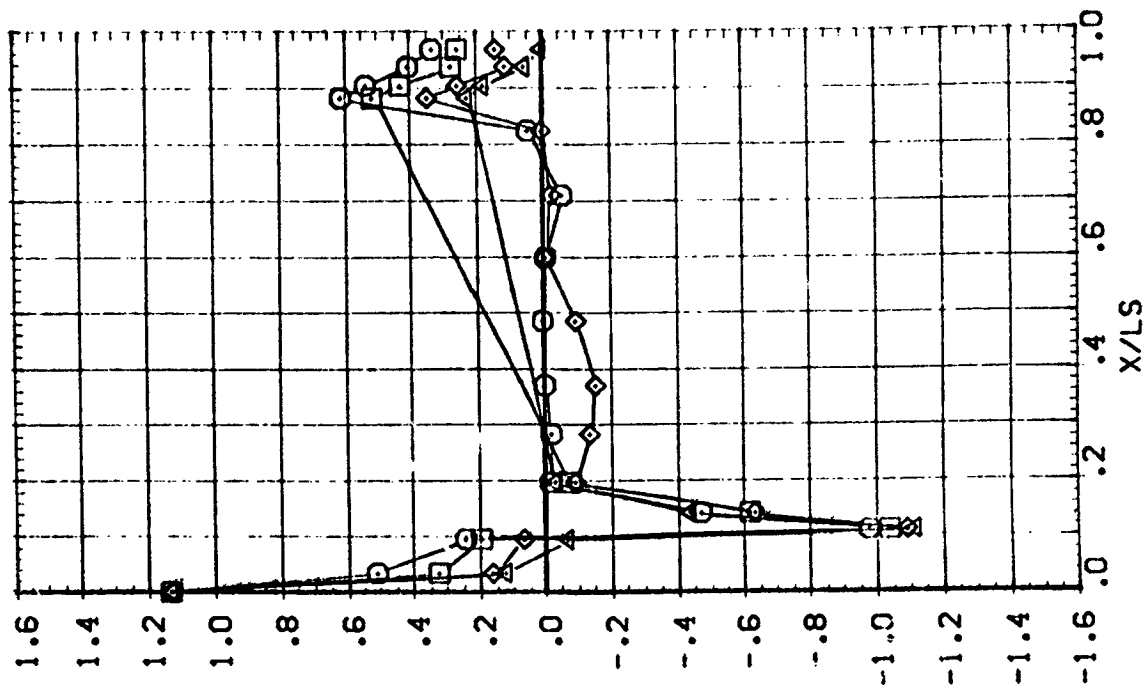
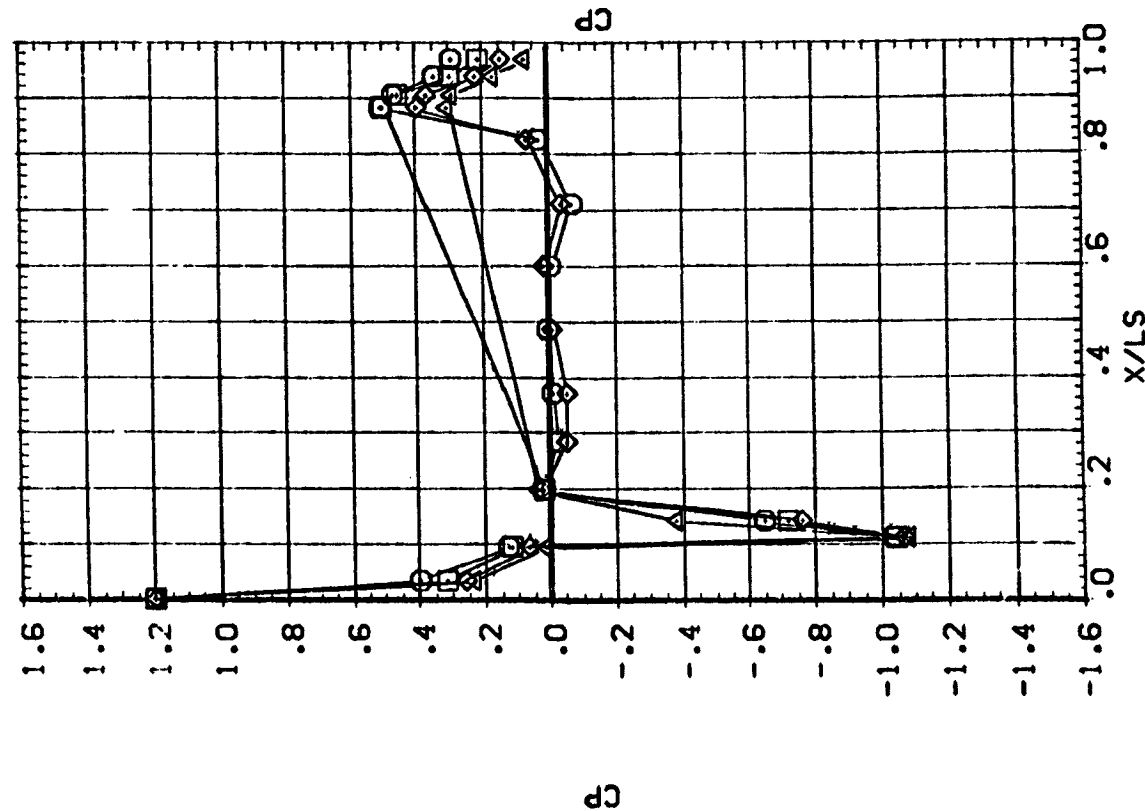
○ □ ◇ △

PHI .000
45.000
90.000
135.000

ALPHAT 4.010
7.990

MACH .901

PARAMETRIC VALUES
BETAT .000 ORBINC -1.200
RODDE .000 ELEVON .000
RJOFLR .000



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES



AMES 11-707 1A9 02A + S3 + T9 SRM BOOSTER

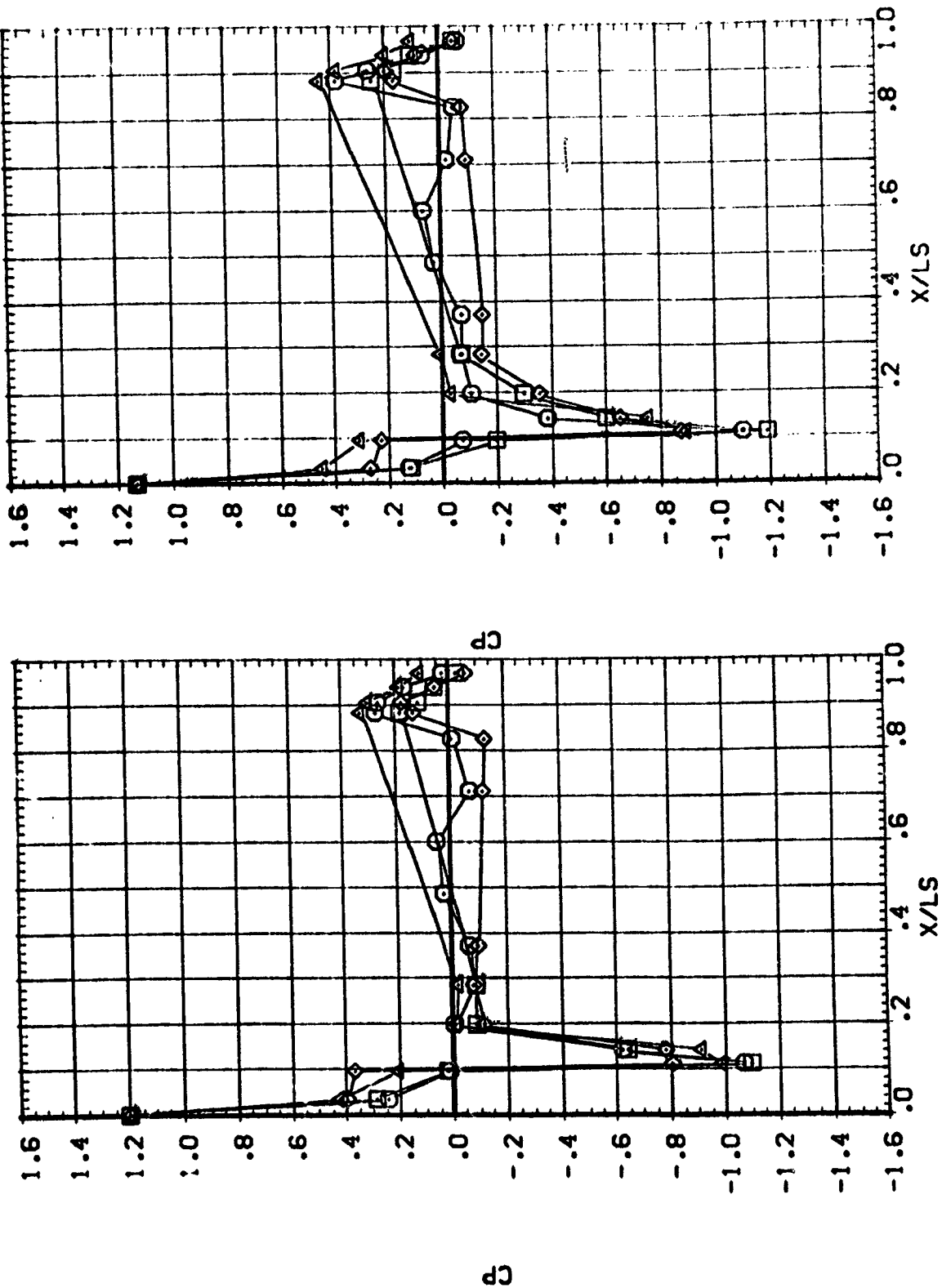
(RBMS44)

SYMBOL
○ □ ◇ △

PHI
180.000
225.000
270.000
315.000

ALPHAT MACH
4.010 .901
7.990

PARAMETRIC VALUES
BETAT .000 ORBINC -1.200
RUDDER .000 ELEVON .000
RUOFLR .000



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES



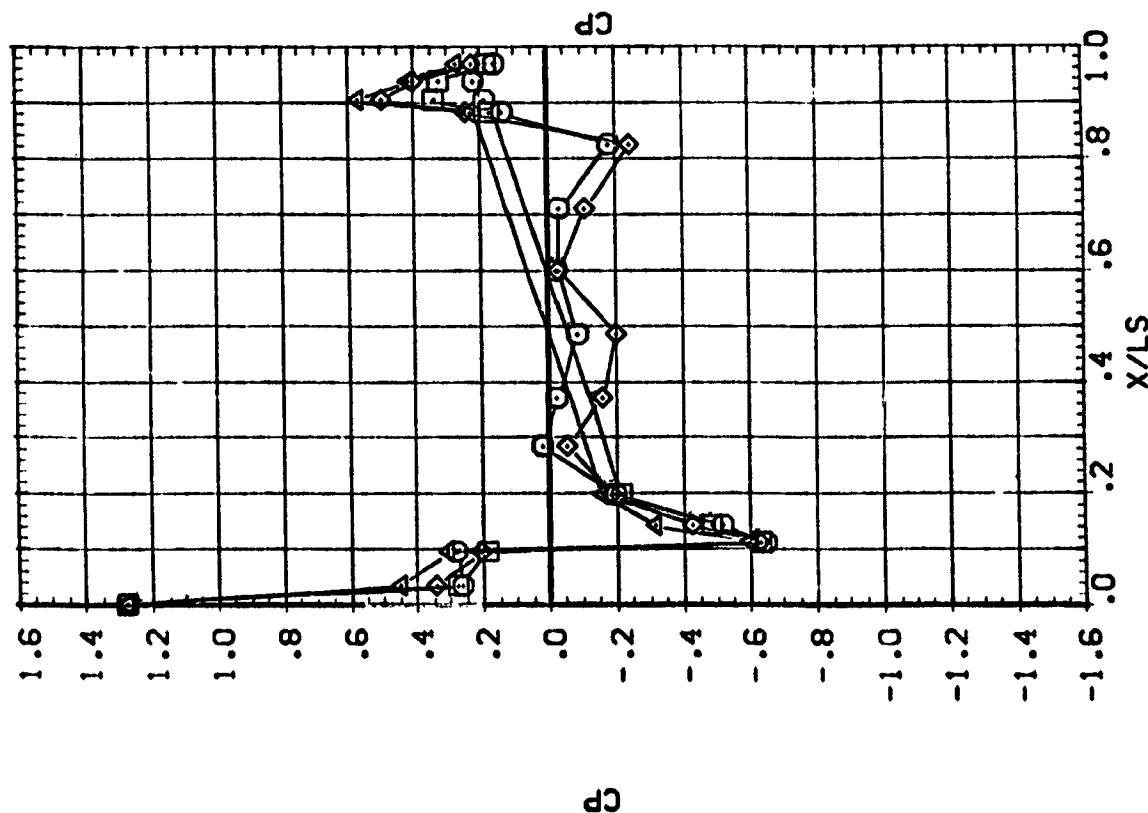
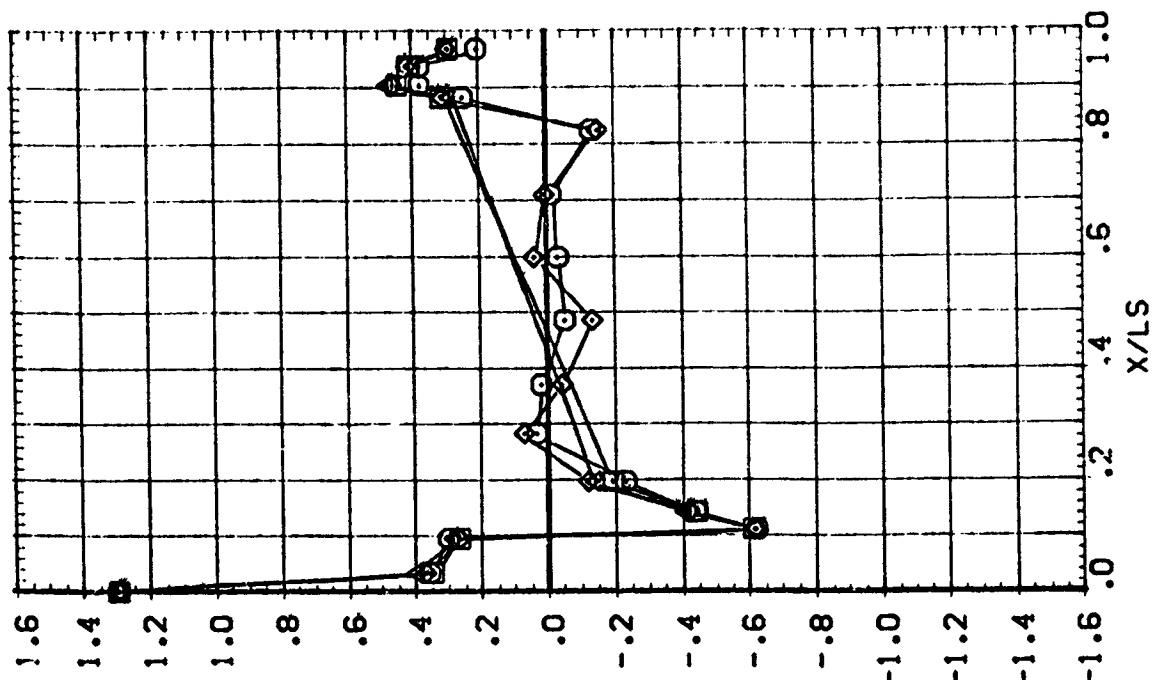
(RBMS44)

AMES 11-707 1A9 02A + S3 + T9 SRM BOOSTER

PARAMETRIC VALUES
BETAT .000 ORBINC -1.200
RLODER .000 ELEVON .000
RLOFLR .000

SYMBOL
□
◇
△

PHI .000 ALPHAT MACH
45.000 -3.970 1.100
90.000
135.000



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES



AMES 11-707 1A9 02A + S3 + T9 SRM BOOSTER

(RBMS44)

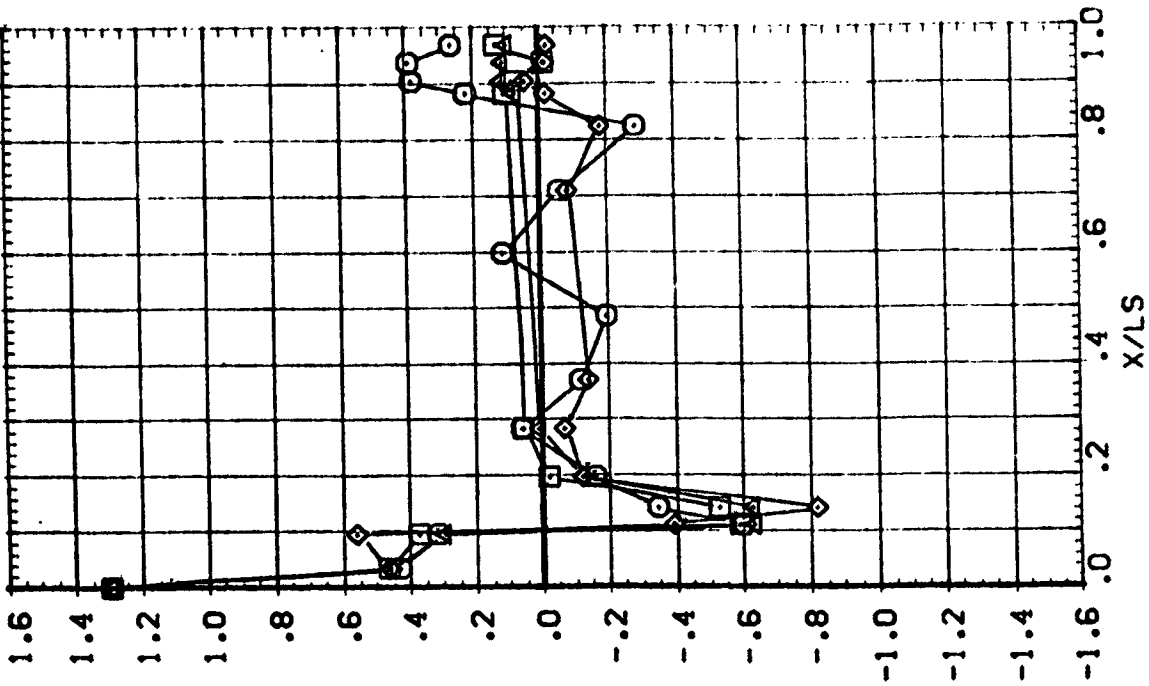
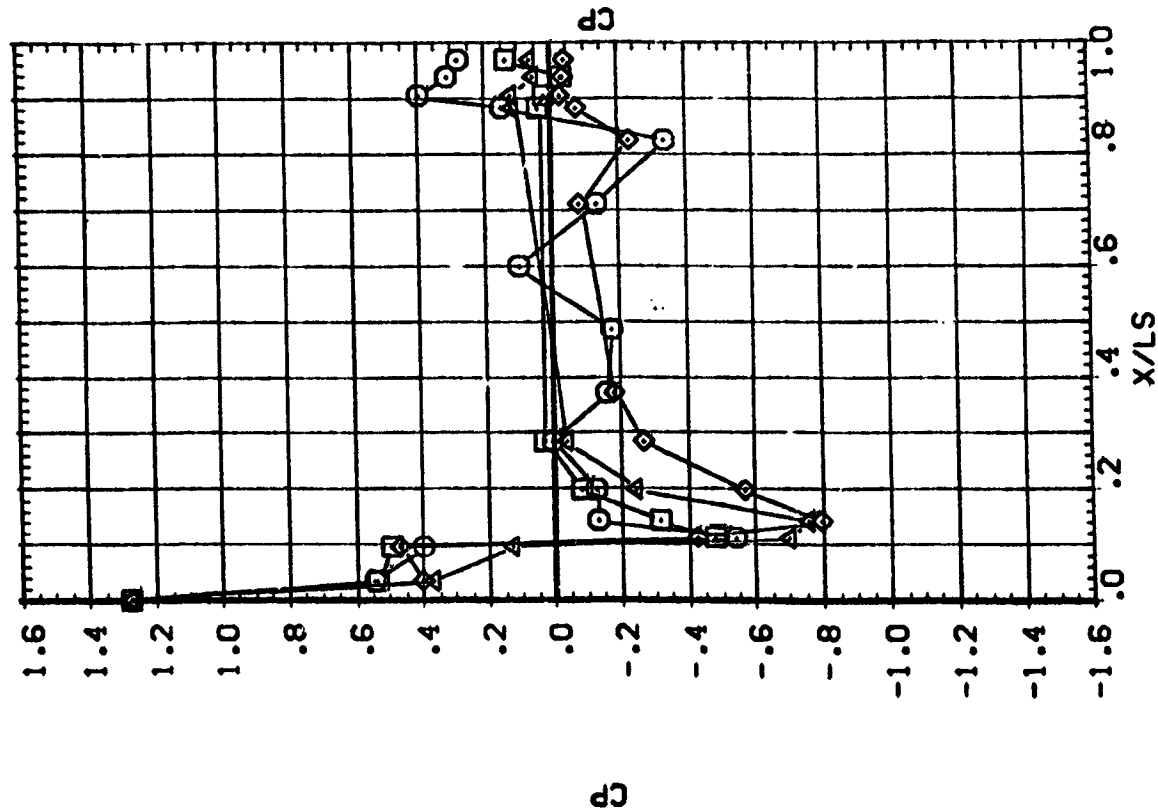
SYMBOL
□
○
◇
△

PHI
180.000
225.000
270.000
315.000

ALPHAT
-3.970
.030

MACH
1.100

PARAMETRIC VALUES
BETAT .000 ORBINC -1.200
RUDDER .000 ELEVON .000
RUDFLR .000



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES



AMES 11-707 1A9 02A + S3 + T9 SRM BOOSTER

(RBMS44)

SYMBOL
○ □ ◇ △

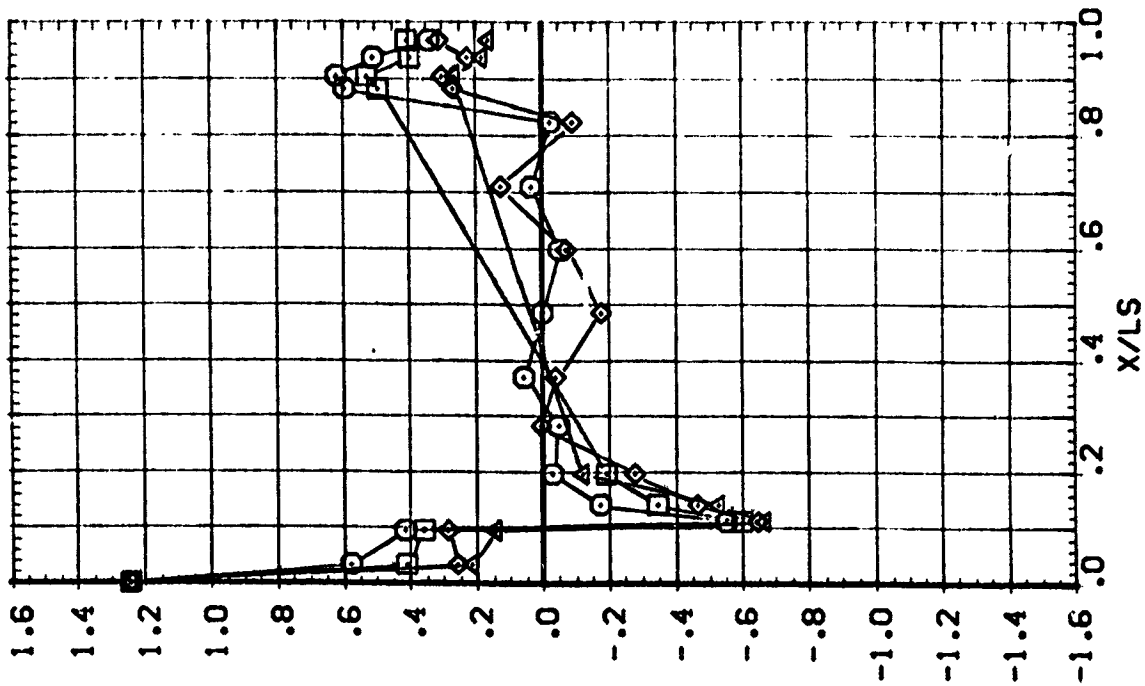
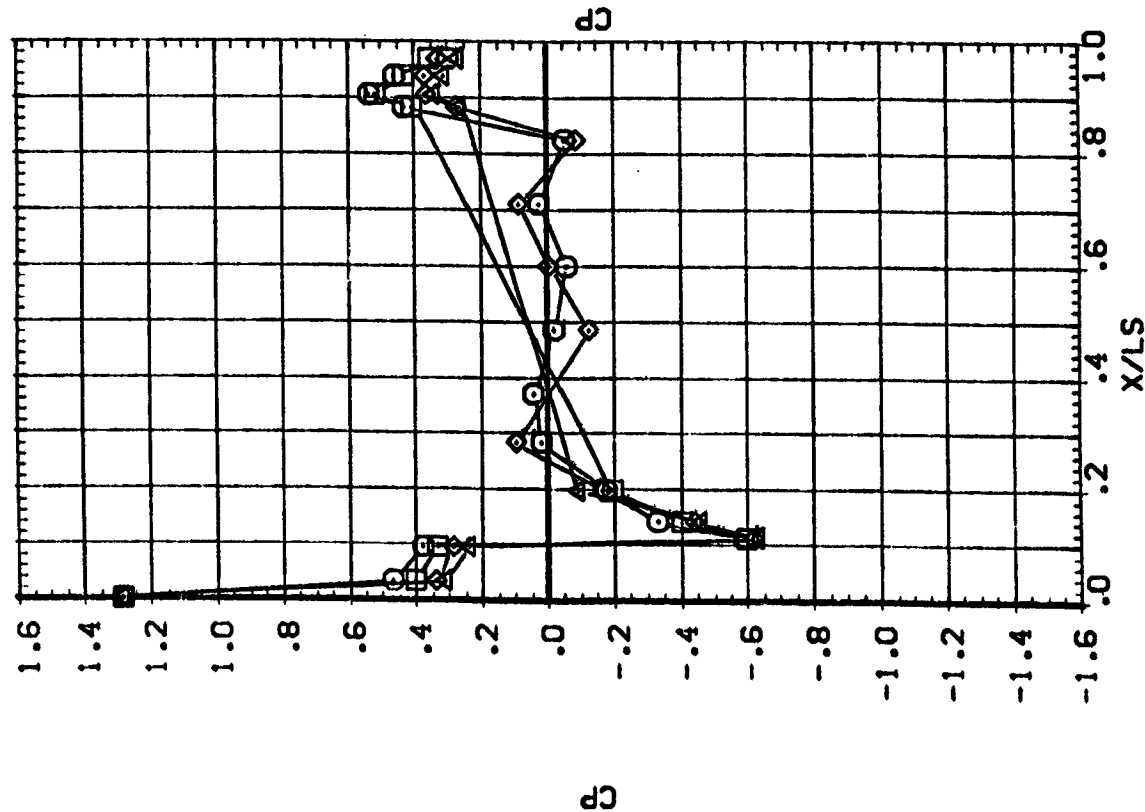
PHI .000
45.000
90.000
135.000

ALPHAT 3.980
8.010

MACH 1.102

PARAMETRIC VALUES
BETAT .000
RUDDER .000
RUOFFLR .000

ORBNIC -1.200
ELEVON .000



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES



AMES 11-707 1A9 02A + S3 + T9 SRM BOOSTER

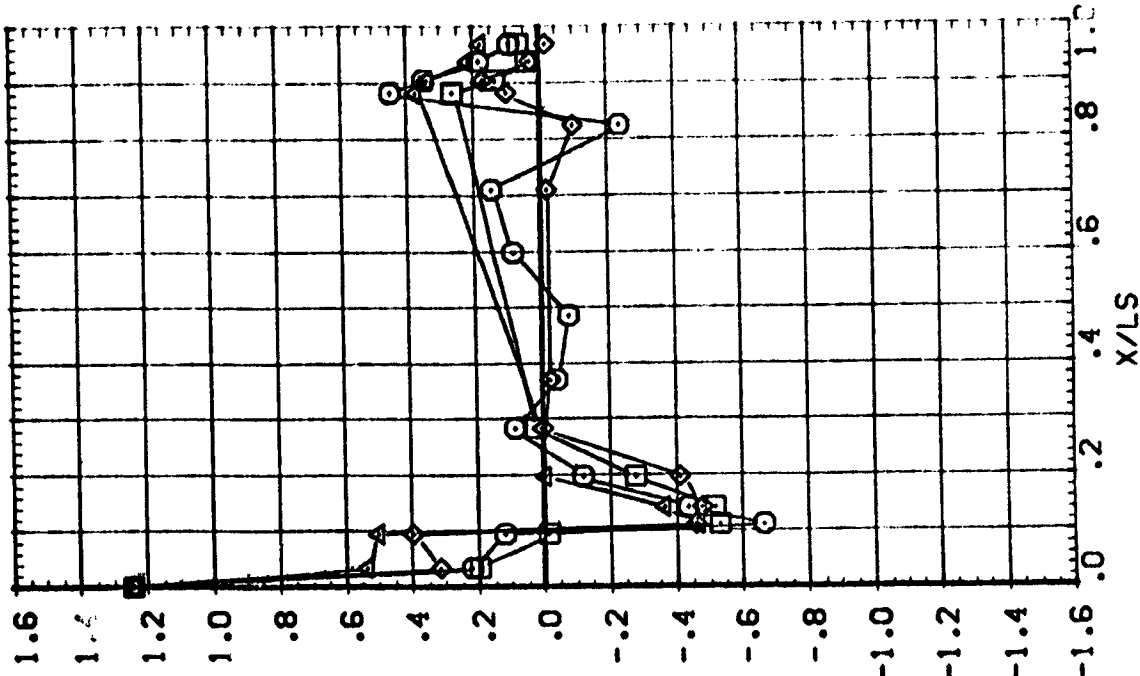
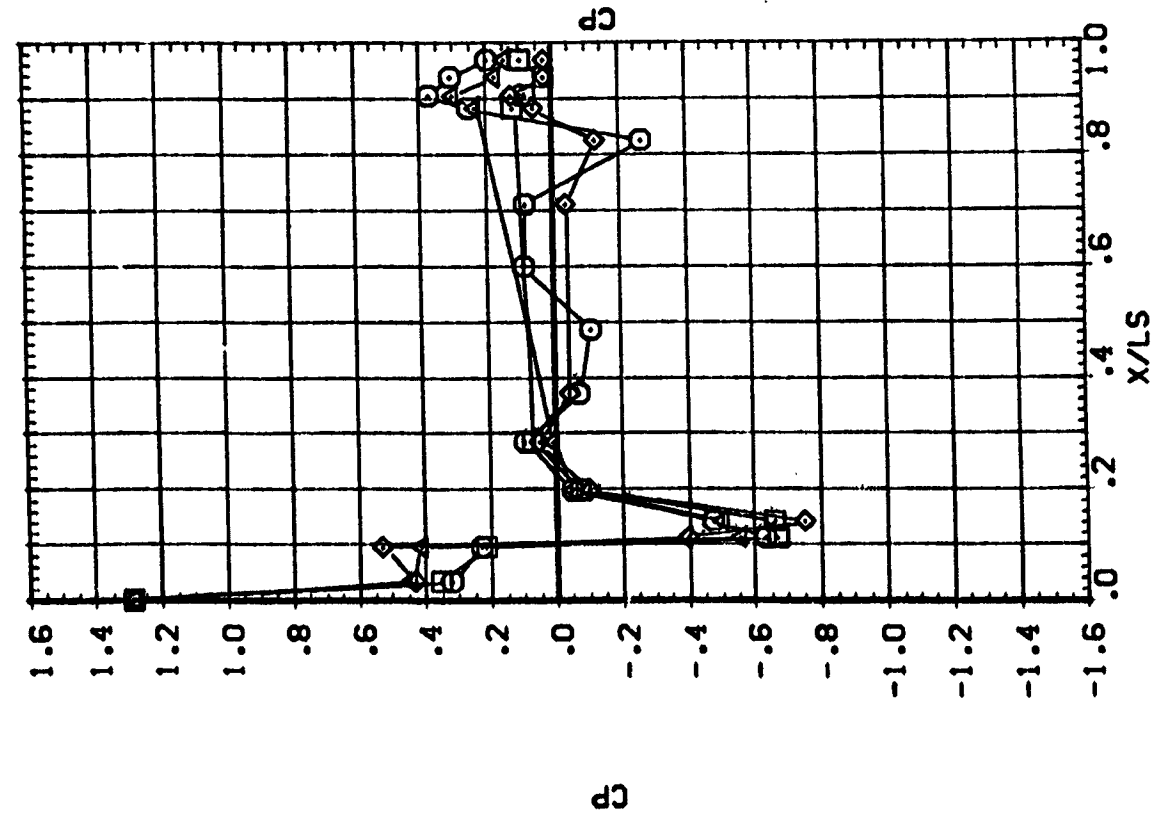
(RBMS44)

SYMBOL
○ □ ◇ △

PHI
180.000
225.000
270.000
315.000

ALPHAT MACH
3.980 1.102
8.010

PARAMETRIC VALUES
BETAT .000 ORBINC -1.200
RUDDER .000 ELEVON .000
RUOFLR .000



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES



PAGE 4

AMES 11-707 :A9 02A + S3 + T9 SRM BOOSTER

(RBMS44)

SYMBOL
□
◇
△

PMI
.000
45.000
90.000
135.000

ALPHAT
-3.960
.020

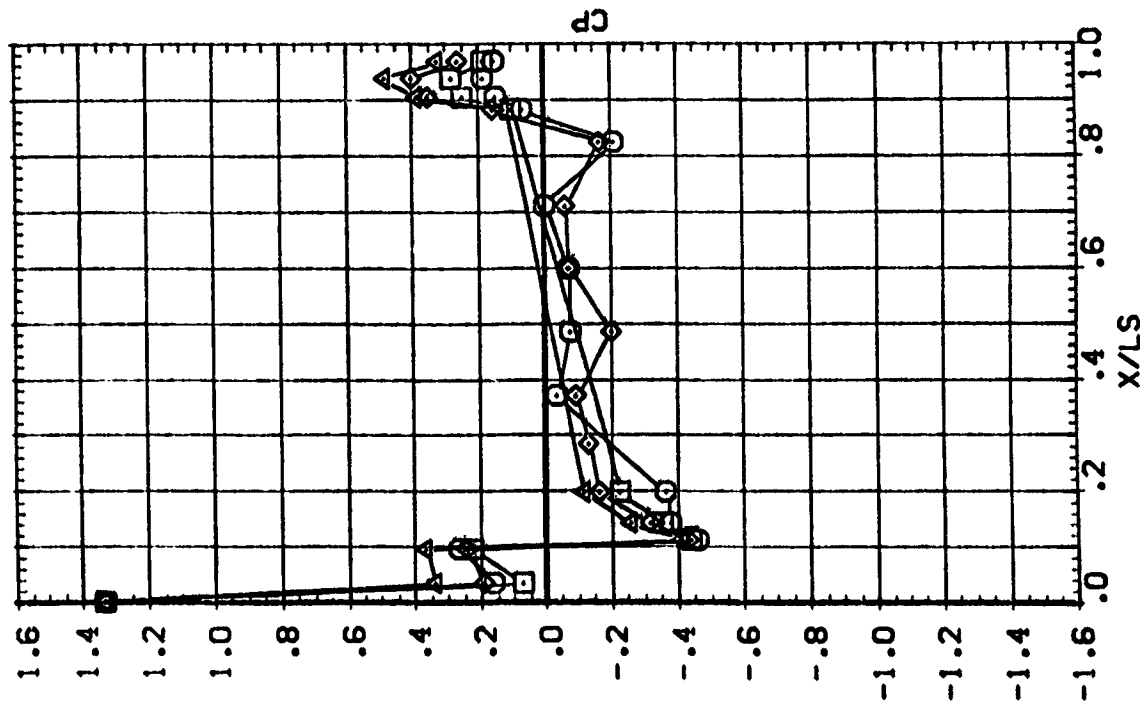
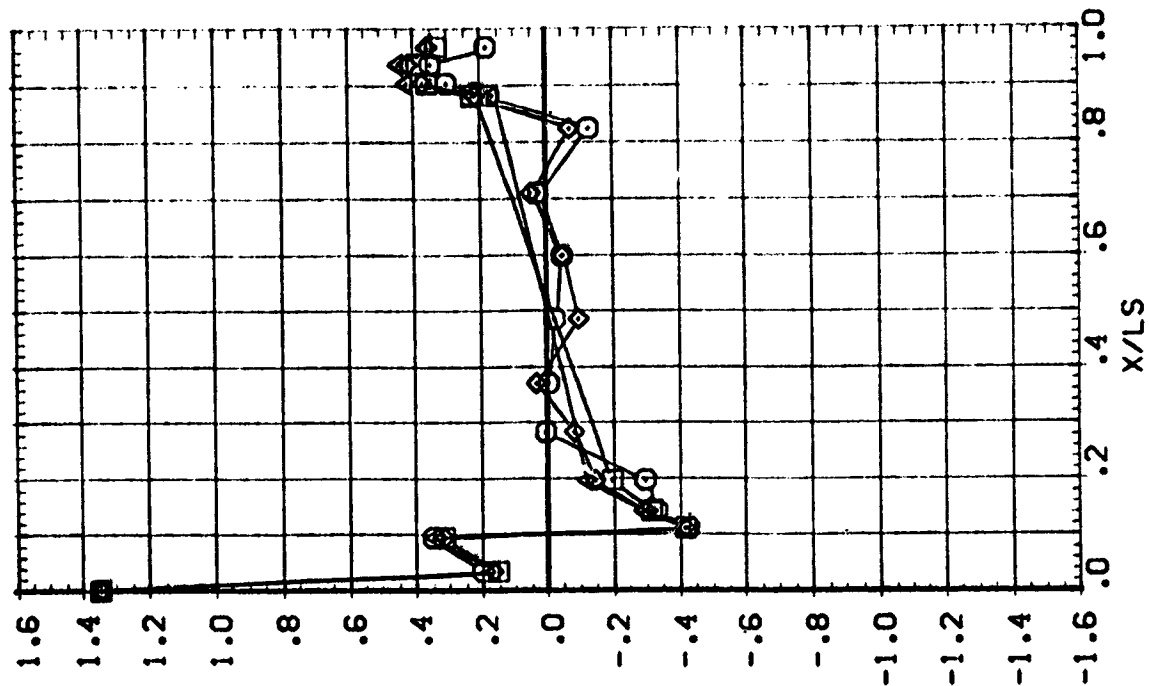
MACH
1.247

PARAMETRIC VALUES
BETAT
RUDDER
RUOFLR

.000
.000
.000

ORBNIC
ELEVON

-1.200
.000



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES



AMES 11-707 1A9 02A + S3 + T9 SRM BOOSTER

(RBMS44)

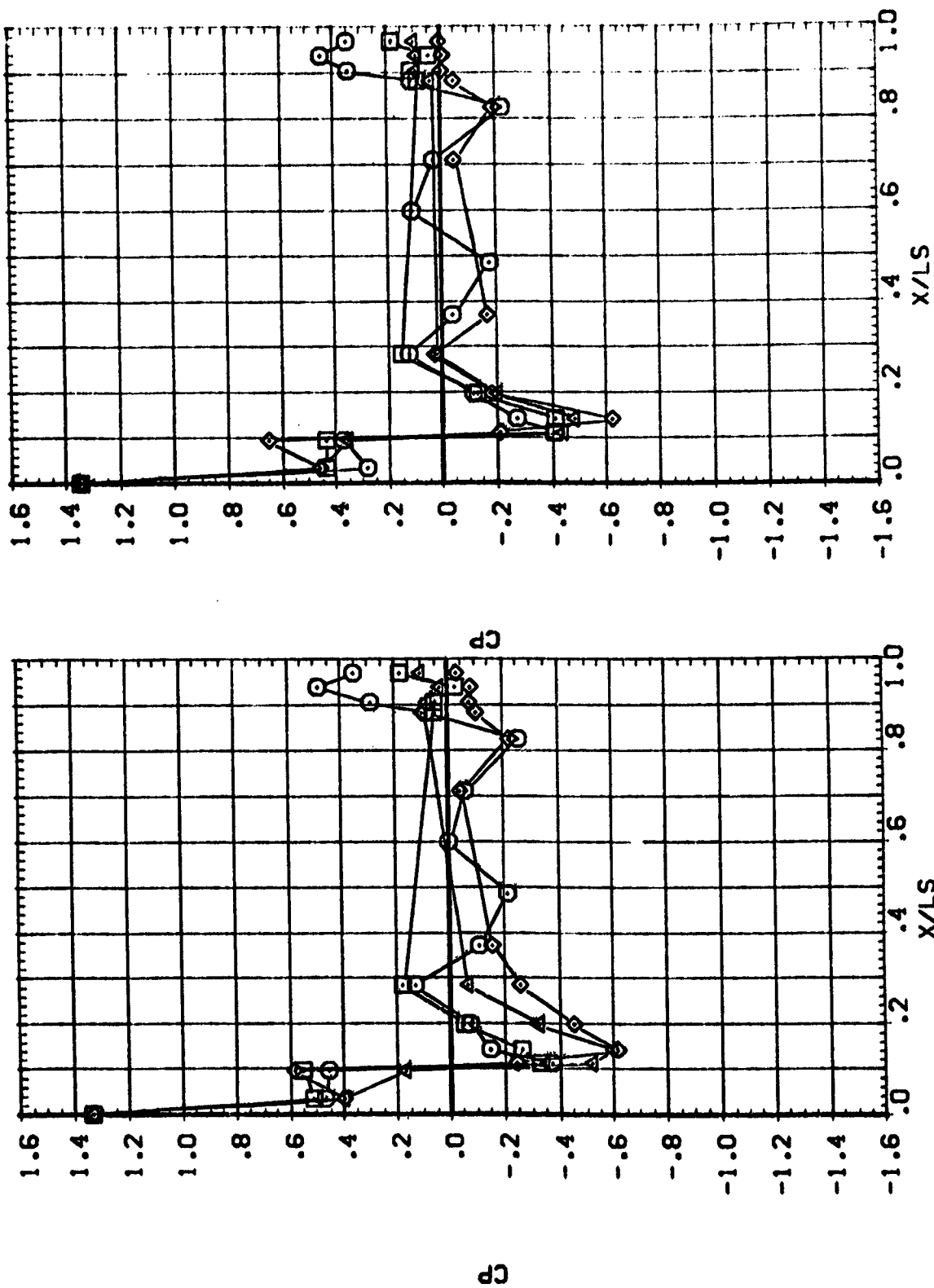
SYMBOL
○ □ ◇ △

PHI
180.000
225.000
270.000
315.000

ALPHAT
-3.960
.020

MACH
1.247

PARAMETRIC VALUES
BETAT .000 ORBINC -1.200
RUDDER .000 ELEVON .000
RUOFLR .000



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES



AMEX

(RBMS44)

AMES 11-707 1A9 02A + S3 + T9 SRM BOOSTER

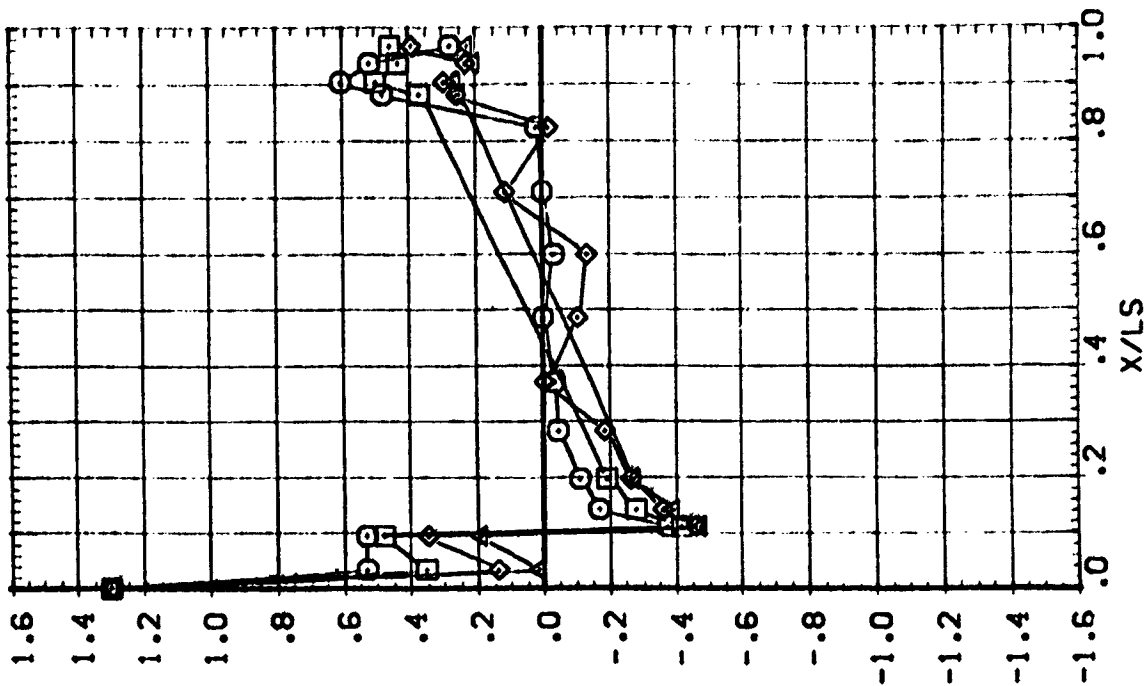
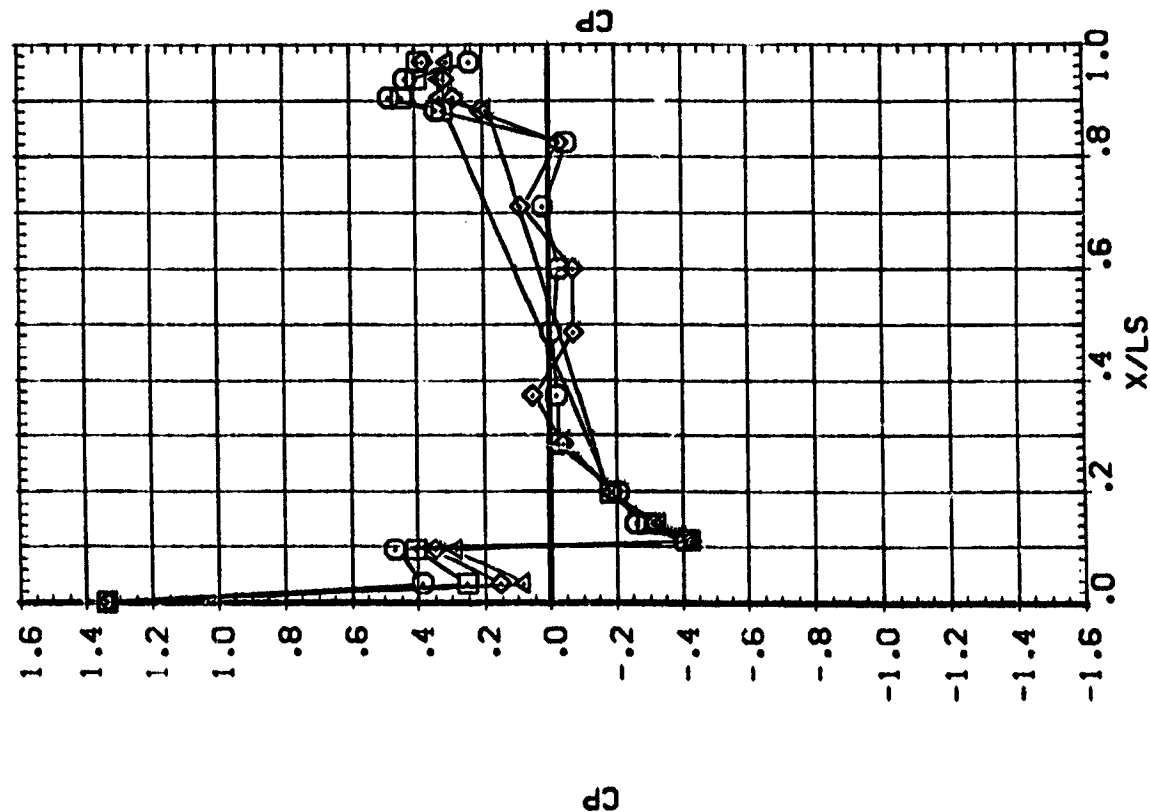
SYMBOL

PHI
45.000
90.000
135.000

ALPHAT
4.020
8.010

MACH
1.248

PARAMETRIC VALUES
BETAT .000 ORBITALC -1.200
RUDDER .000 ELEVON .000
RLOFLR .000



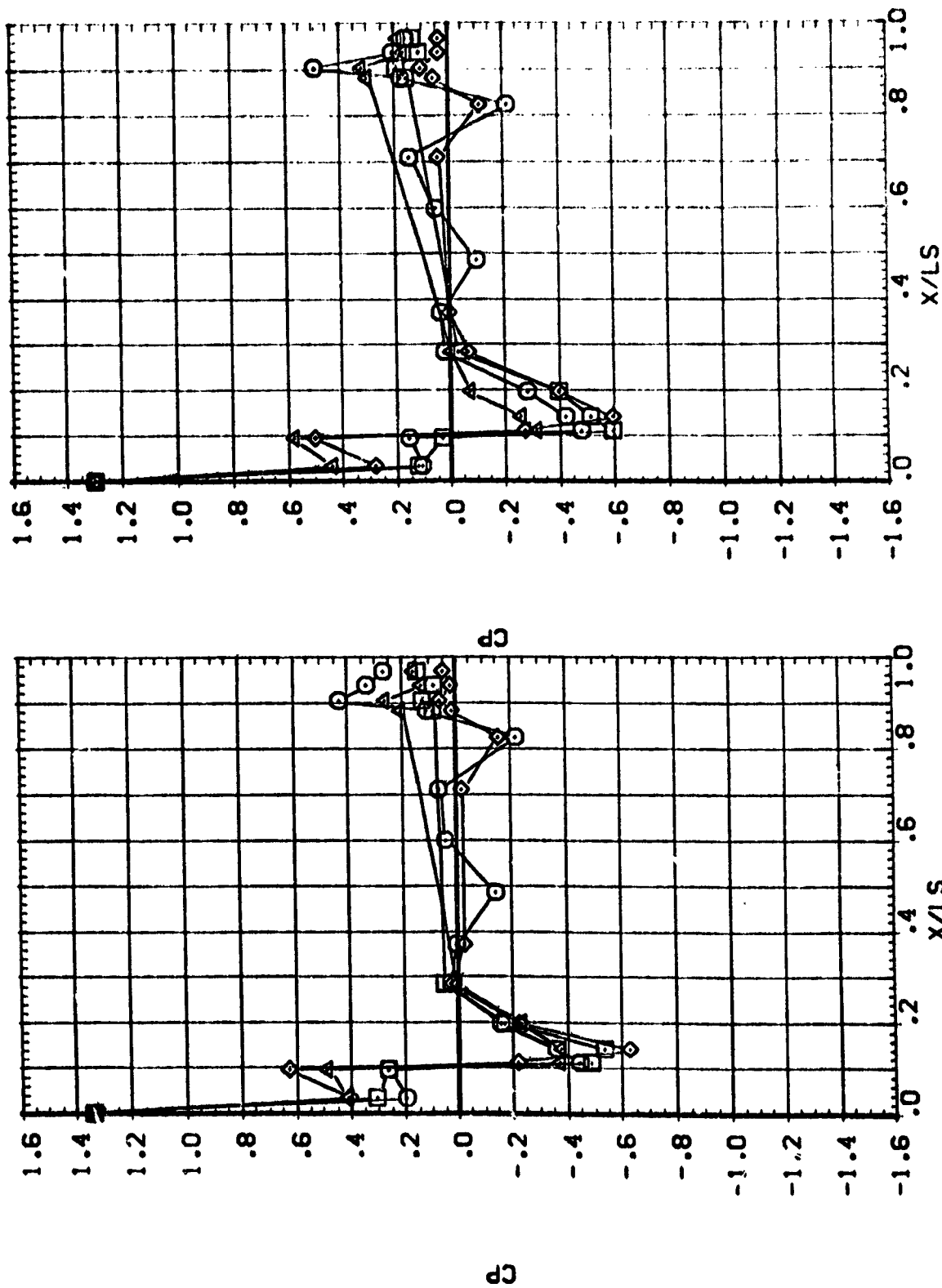
LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES



AMES 11-707 1A9 02A + S3 + T9 SRM BOOSTER

(RBMS44)

SYMBOL	PHI	ALPHA	MACH	BETAT	DRBINC	ELEVON
○	180.000	4.020	1.248	.000	.000	-1.200
□	225.000	8.010		.000	.000	.000
◇	270.000					
△	315.000					



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES



AMES 11-707 1A9 02A + S3 + T9 SRM BOOSTER

(RBMS03)

SYMBOL
○ □ ◇ △

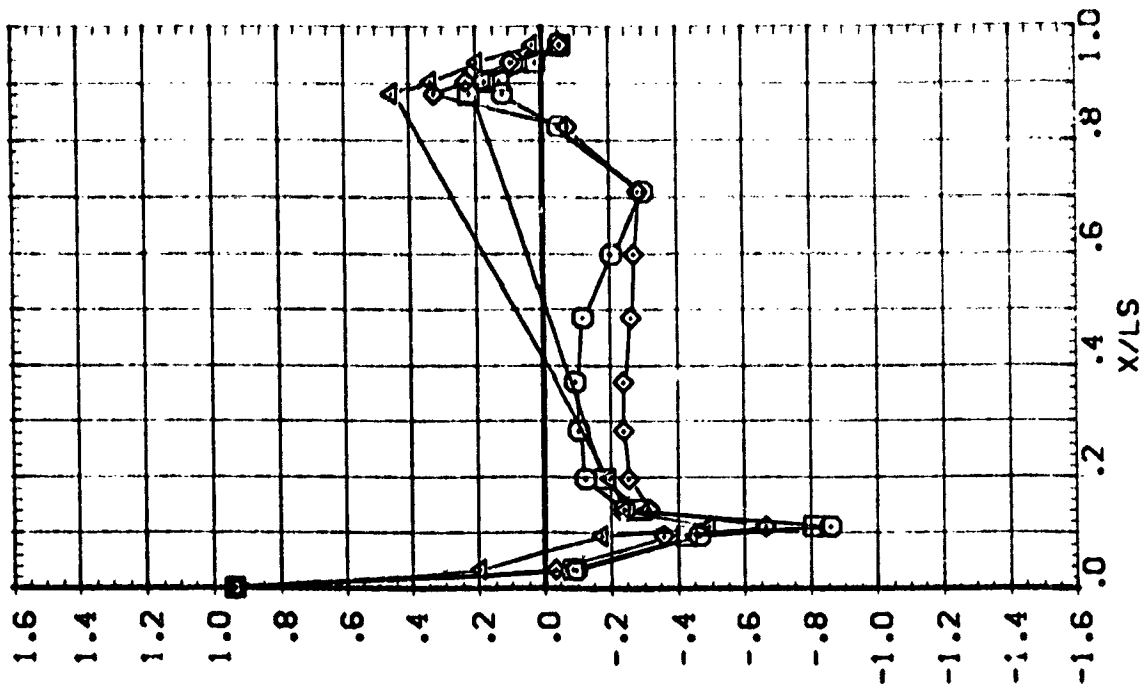
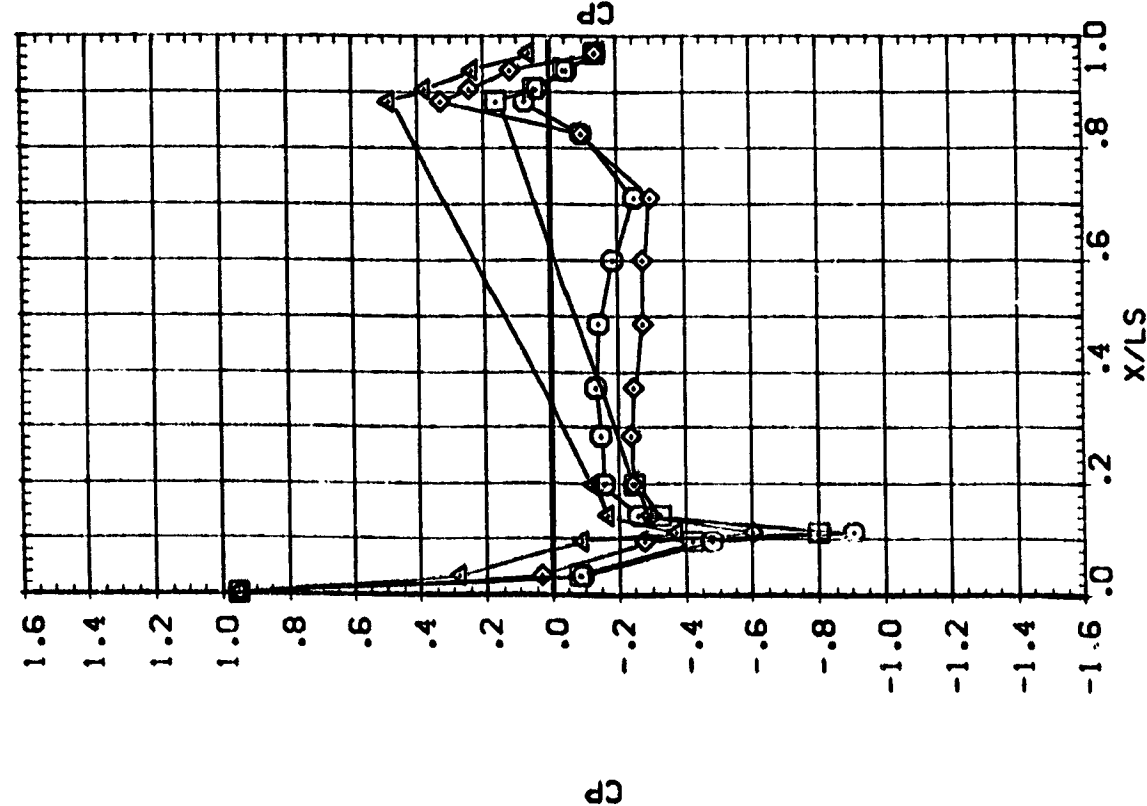
PHI
.000
45.000
90.000
135.000

BETAT
-4.000
.000

MACH
.586

PARAMETRIC VALUES
ALPHAT
RUDER
RUOFLR

.500
.000
.000



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

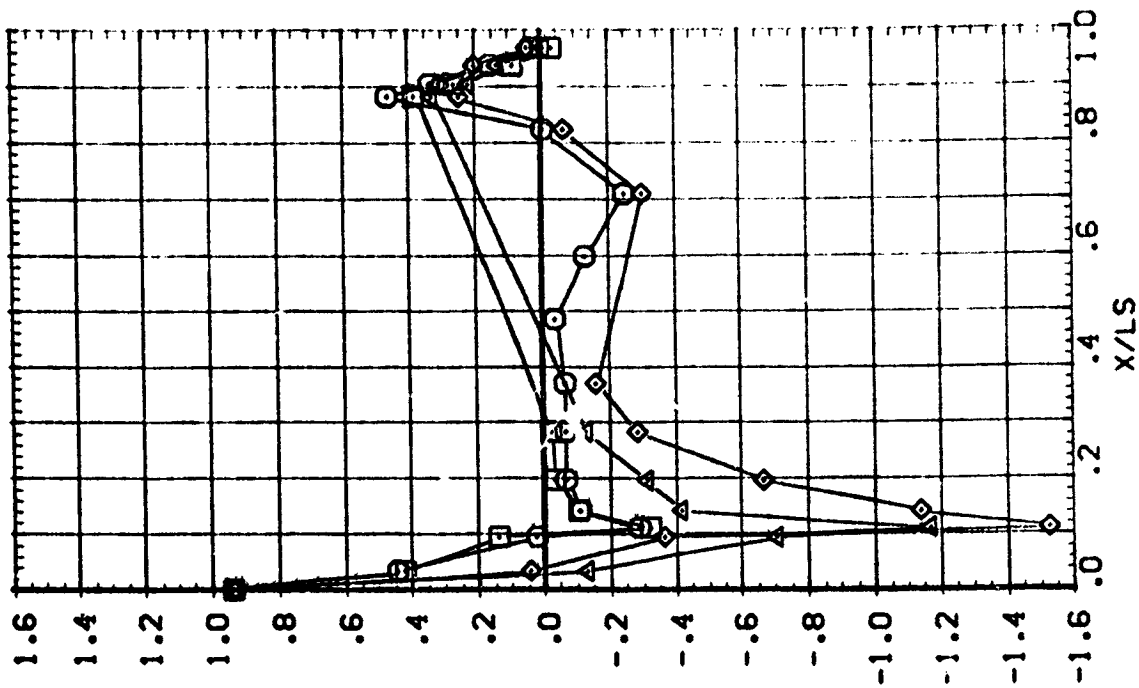
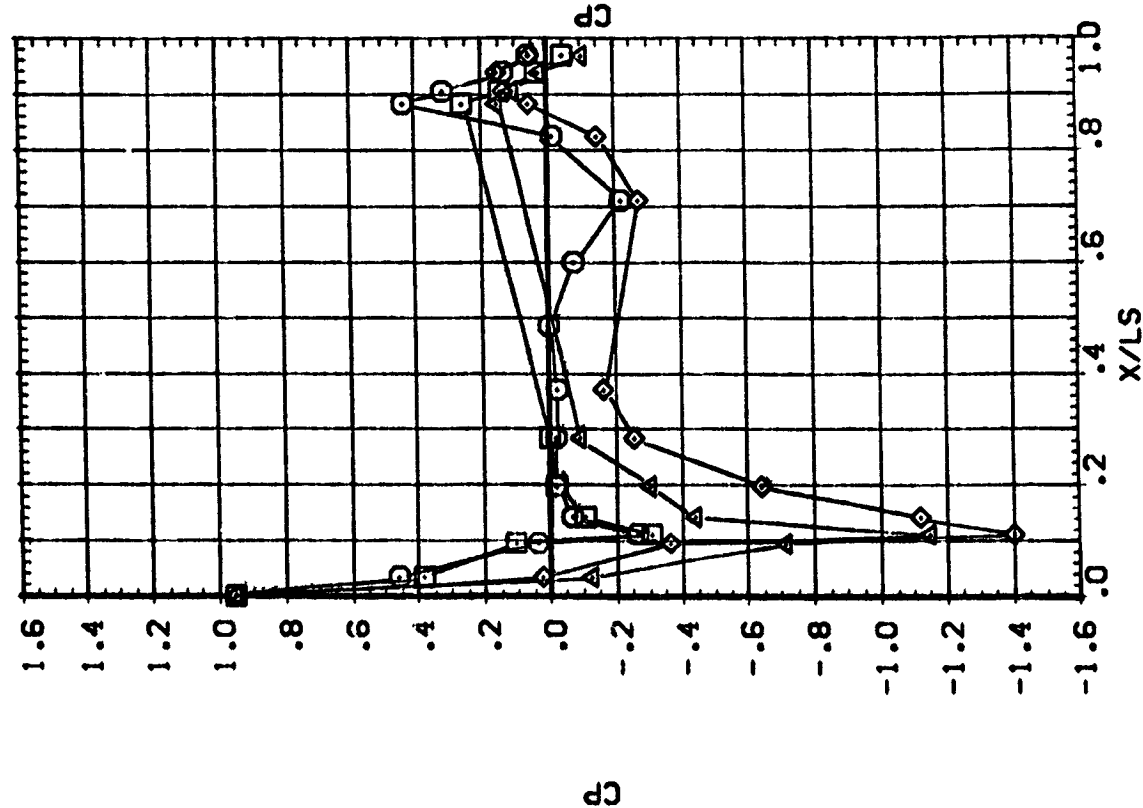
SYMBOL
□
◇
△

PHI
180.000
275.000
270.000
315.000

BETAT
-4.020
.020

MACH
.596

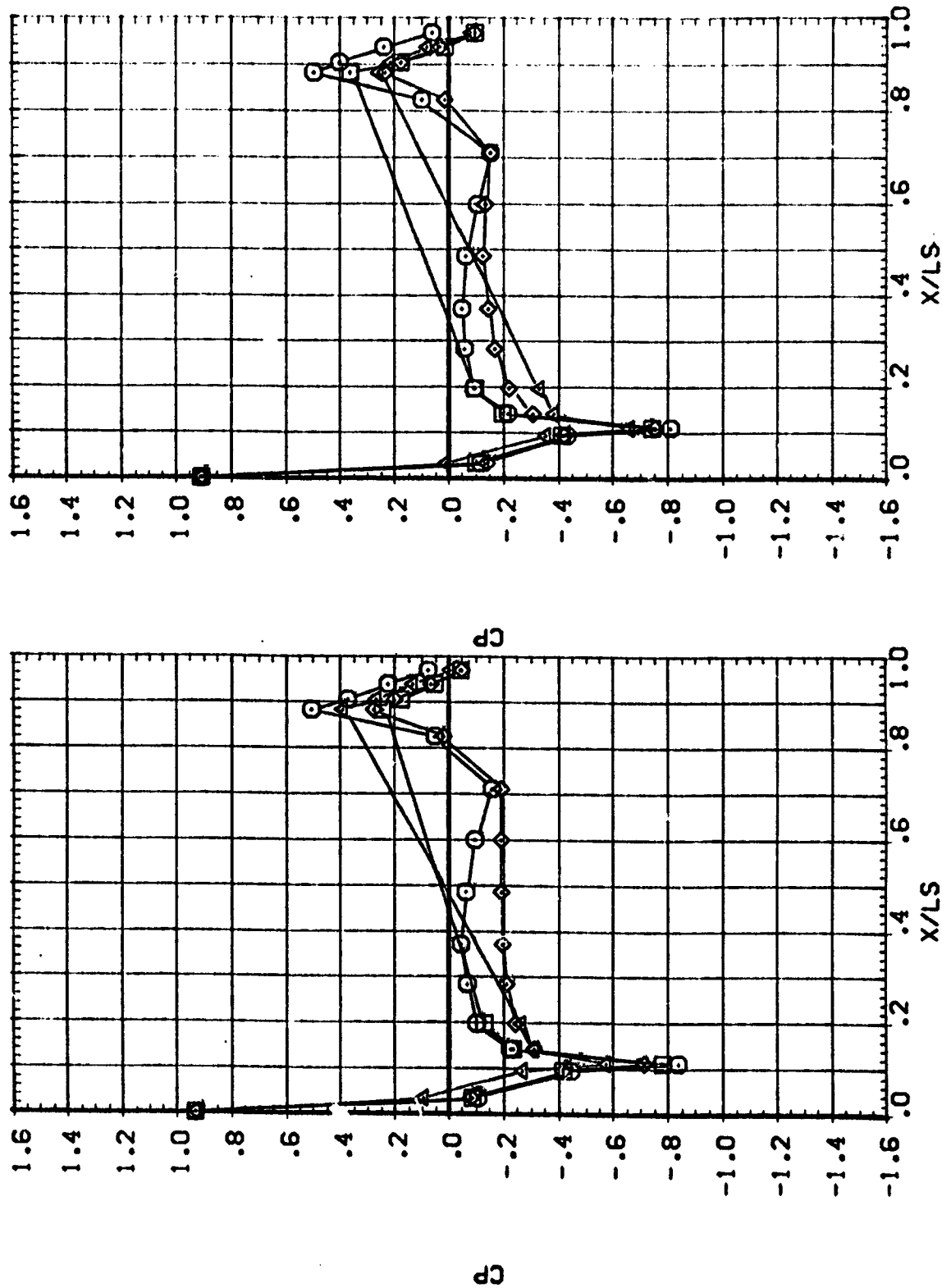
PARAMETRIC VALUES
ALPHAT
RUDDER
RUOFLR
-8.000
.000
.000
ORBITC
ELEVON
.500
.000



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

AMES 11-707 1A9 02A + S3 + T9 SRM BOOSTER (RBMS03)

SYMBOL	PHI	BETAT	MACH	ALPHAT	PARAMETRIC VALUES
○	.000	4.100	.598	RUDER	-8.000 DRBINC .500
◇	45.000	8.180		RUDFLR	.000 ELEVON .000
△	90.000				
▽	135.000				

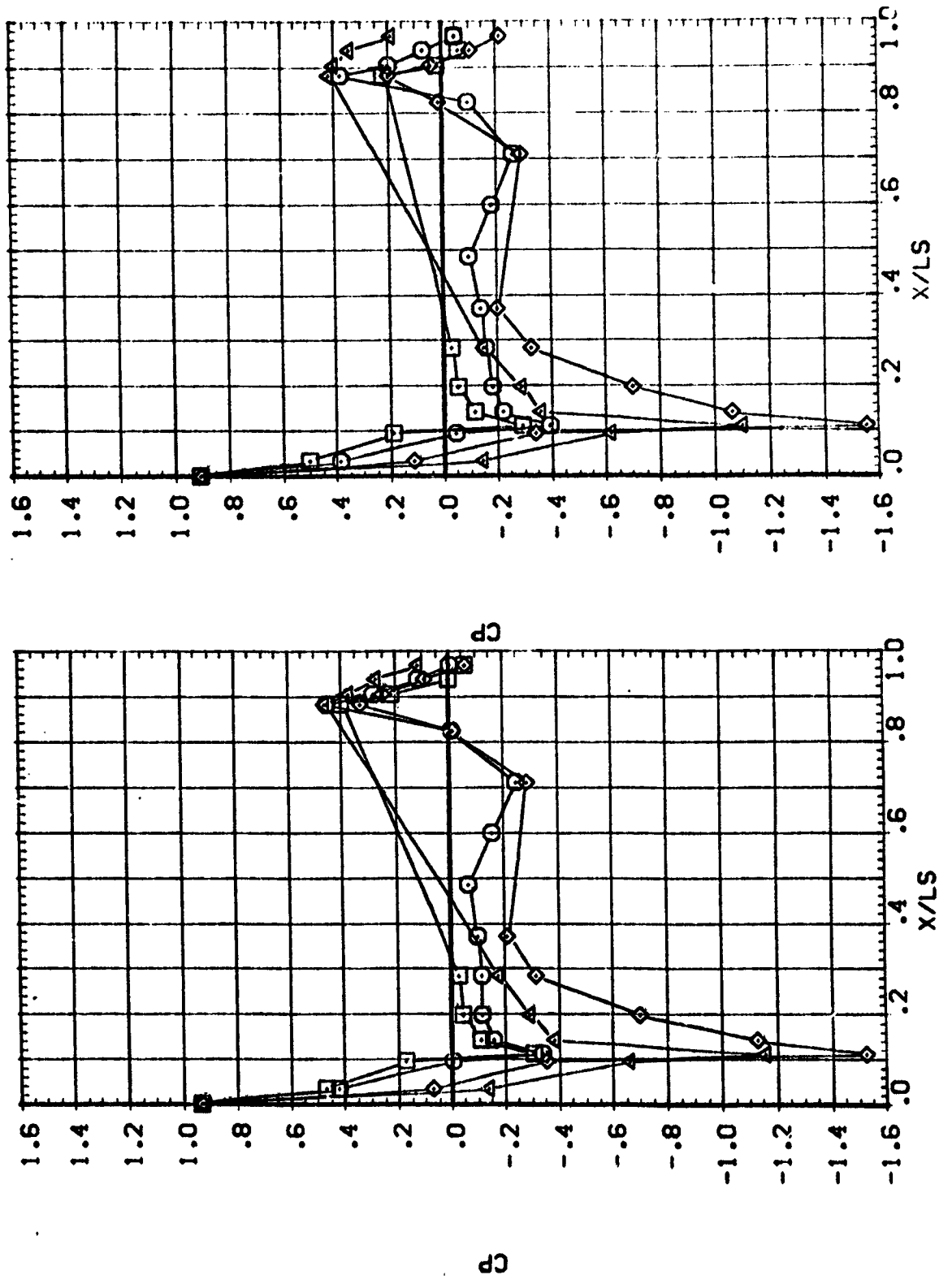


LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

AMES 11-707 1A9 02A + S3 + T9 SRM BOOSTER (RBMS03)

PARAMETRIC VALUES
 ALPHAT -8.000 ORBINC .500
 RUDDER .000 ELEVON .000
 RUOFLR .000

SYMBOL PHI BETAT MACH
 180.000 4.100 .598
 225.000 9.180
 270.000
 315.000



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES



AMES 11-707 1A9 02A + S3 + T9 SRM BOOSTER

(RBMS03)

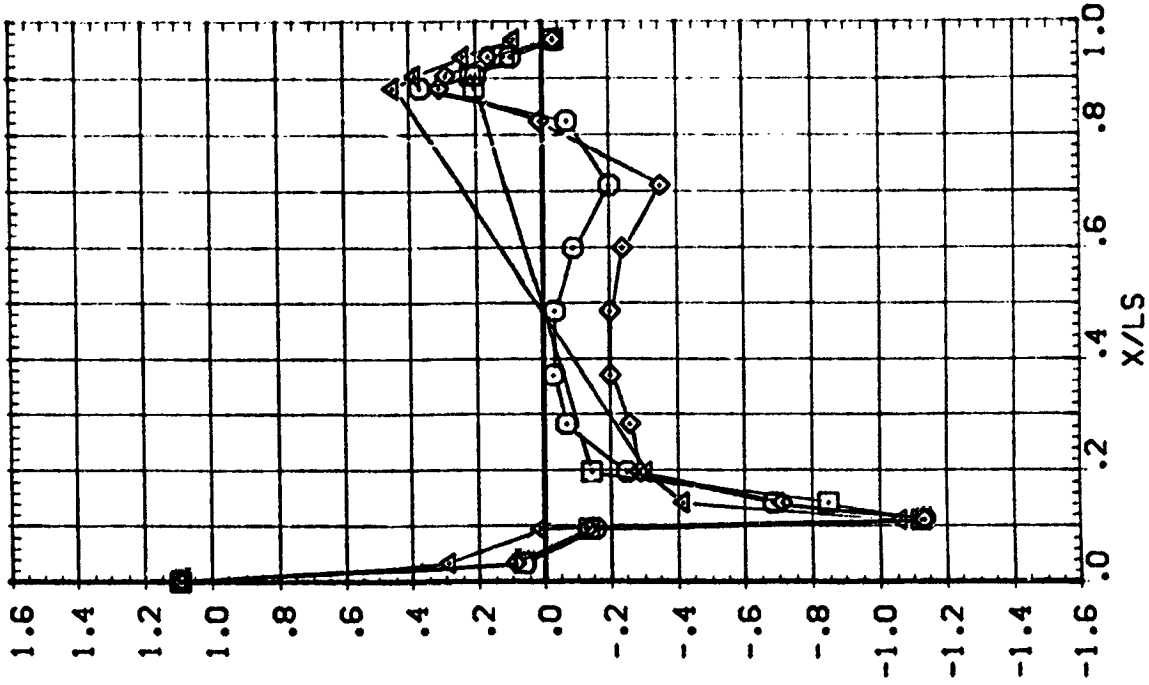
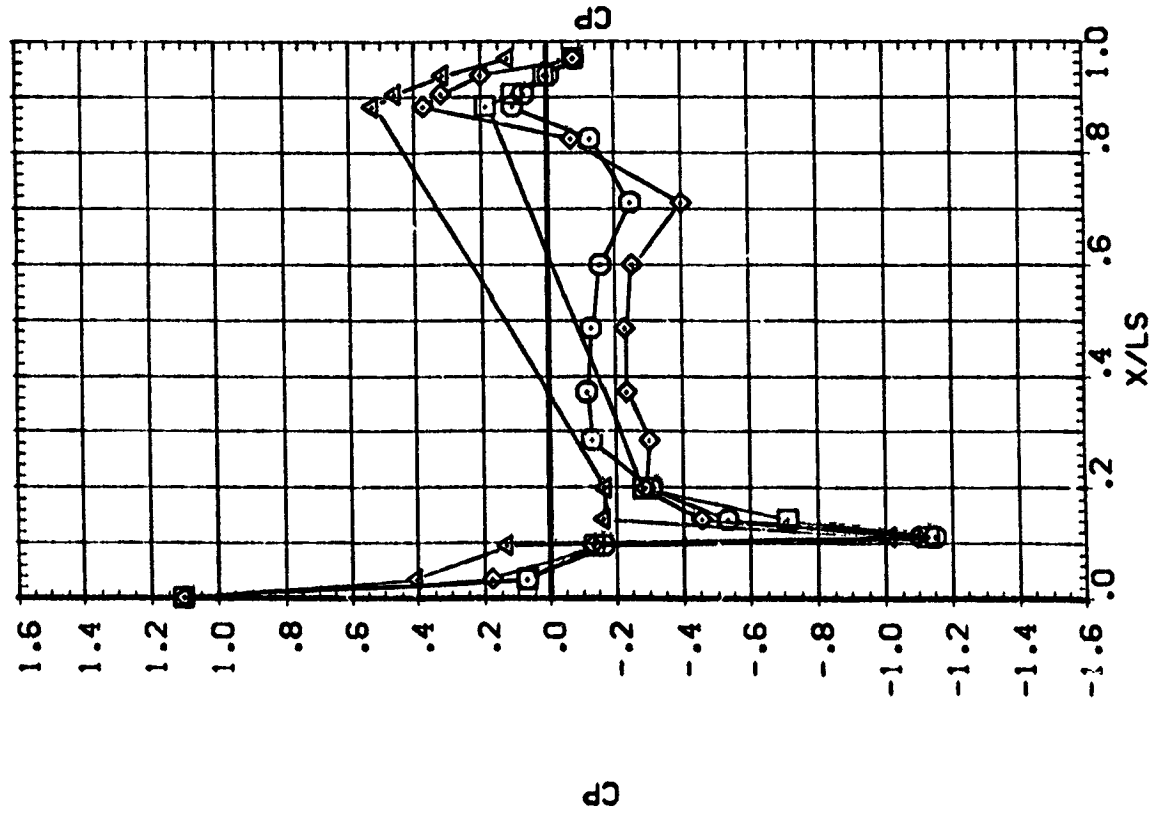
SYMBOL
○ □ ◇ △

PHI
.000
45.000
90.000
135.000

BETAT
-4.050
2.080

MACH
.900

PARAMETRIC VALUES
ALPHAT -8.000 ORBINC .500
RUDDER .000 ELEVON .000
RUFLR .000



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES



AMES 11-707 1A9 02A + S3 + T9 SRM BOOSTER

(RBMS03)

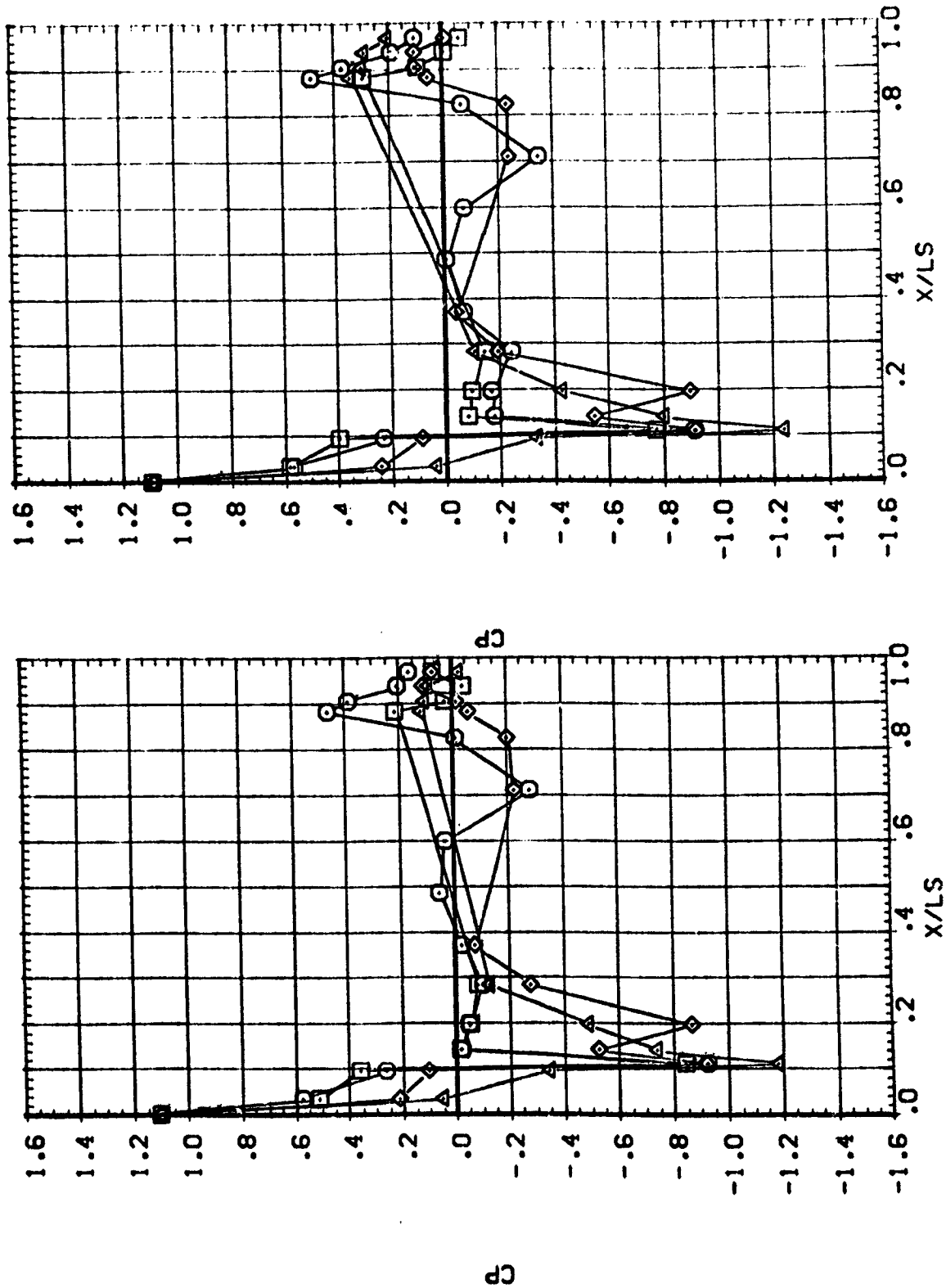
SYMBOL
○
□
◇
△

PHI
180.000
225.000
270.000
315.000

BETAT
-4.050
2.080

MACH
.900

PARAMETRIC VALUES
ALPHAT
RJOER
RJOFLR
ORGINC
ELEVON
.500
.000
.000



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES



AMES 11-707 1A9 02A + S3 + T9 SRM BOOSTER

(RBMS03)

SYMBOL

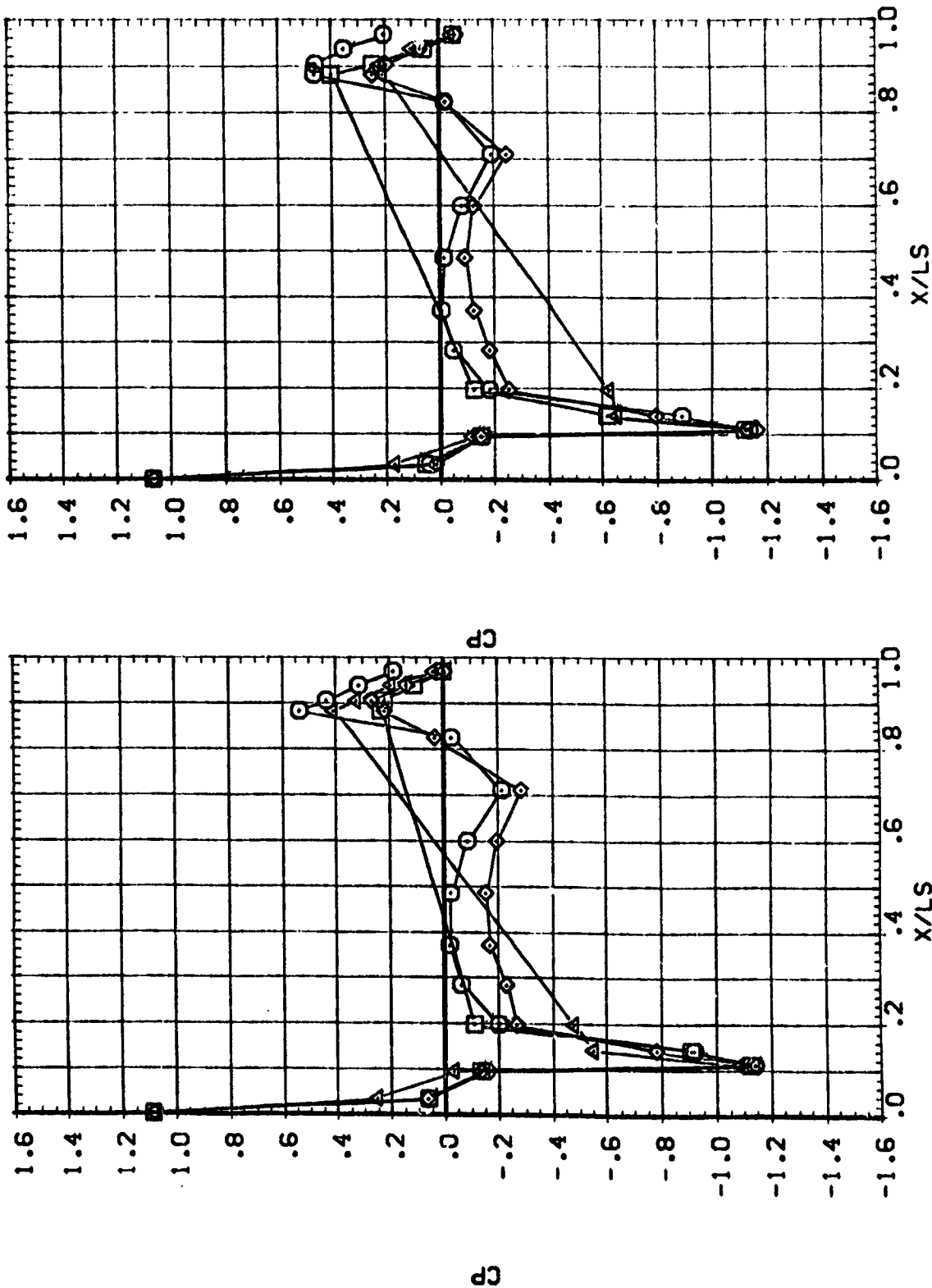
PHI
-0.000
45.000
90.000
135.000

BETAT
4.140
8.270

MACH
.898

PARAMETRIC VALUES

ALPHAT
RUDDER
RUDFLR
-8.000
.000
.000
ORGINC
ELEVON
.500
.000



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES



AMES 11-707 1A9 02A + S3 + T9 SRM BOOSTER

(RBMS03)

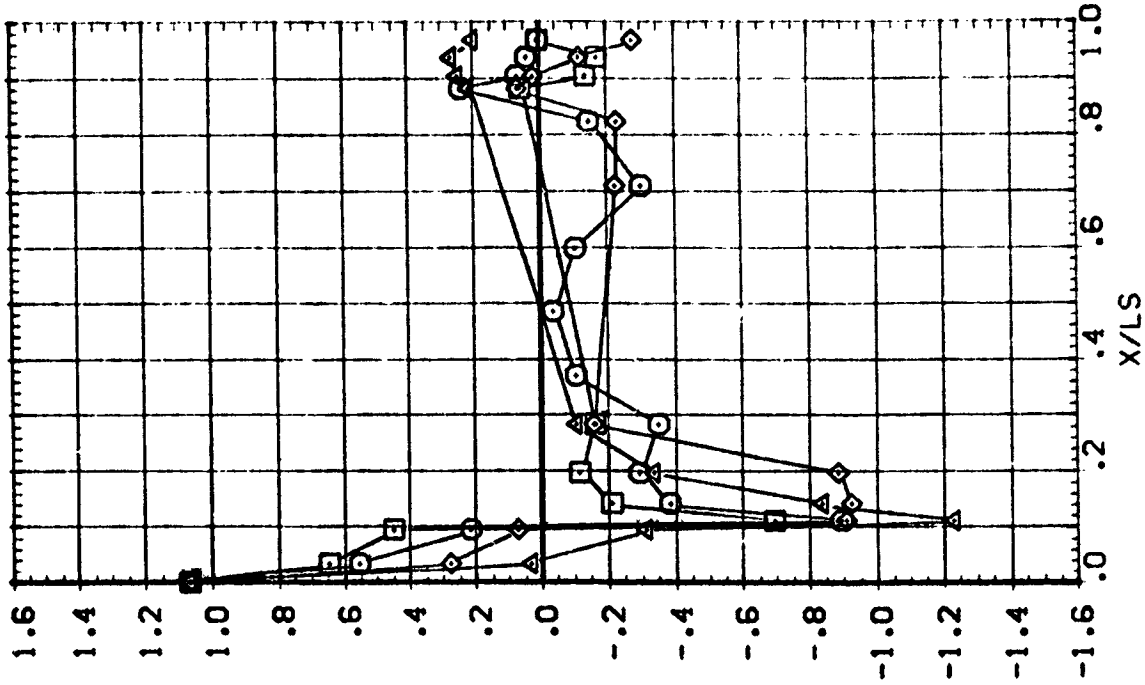
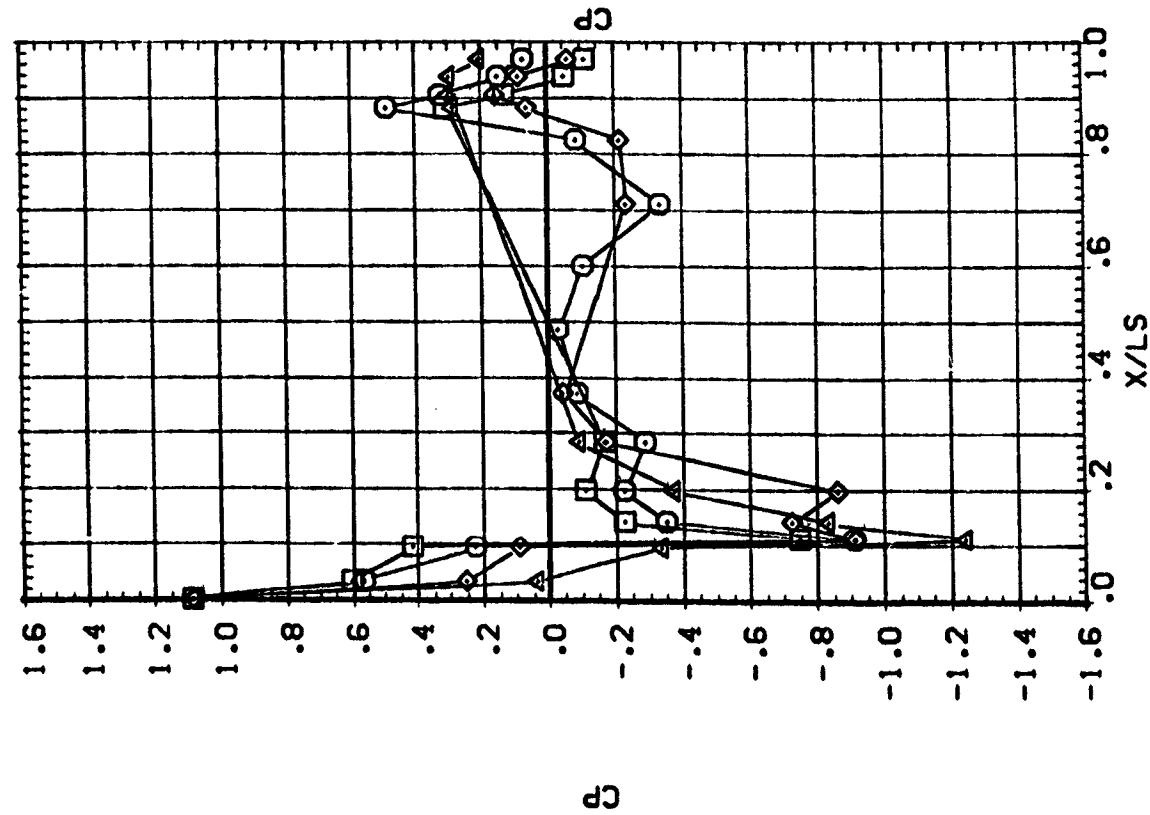
SYMBOL
○
□
◇
△

PHI
180.000
225.000
270.000
315.000

BETA
4.140
8.270

MACH
.898

PARAMETRIC VALUES
ALPHAT -8.000
RUDDER .000
RJOFLR .000
ORBITC .500
ELEVON .000



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES



AMES 11-707 1A9 02A + S3 + T9 SRM BOOSTER

(RBMS03)

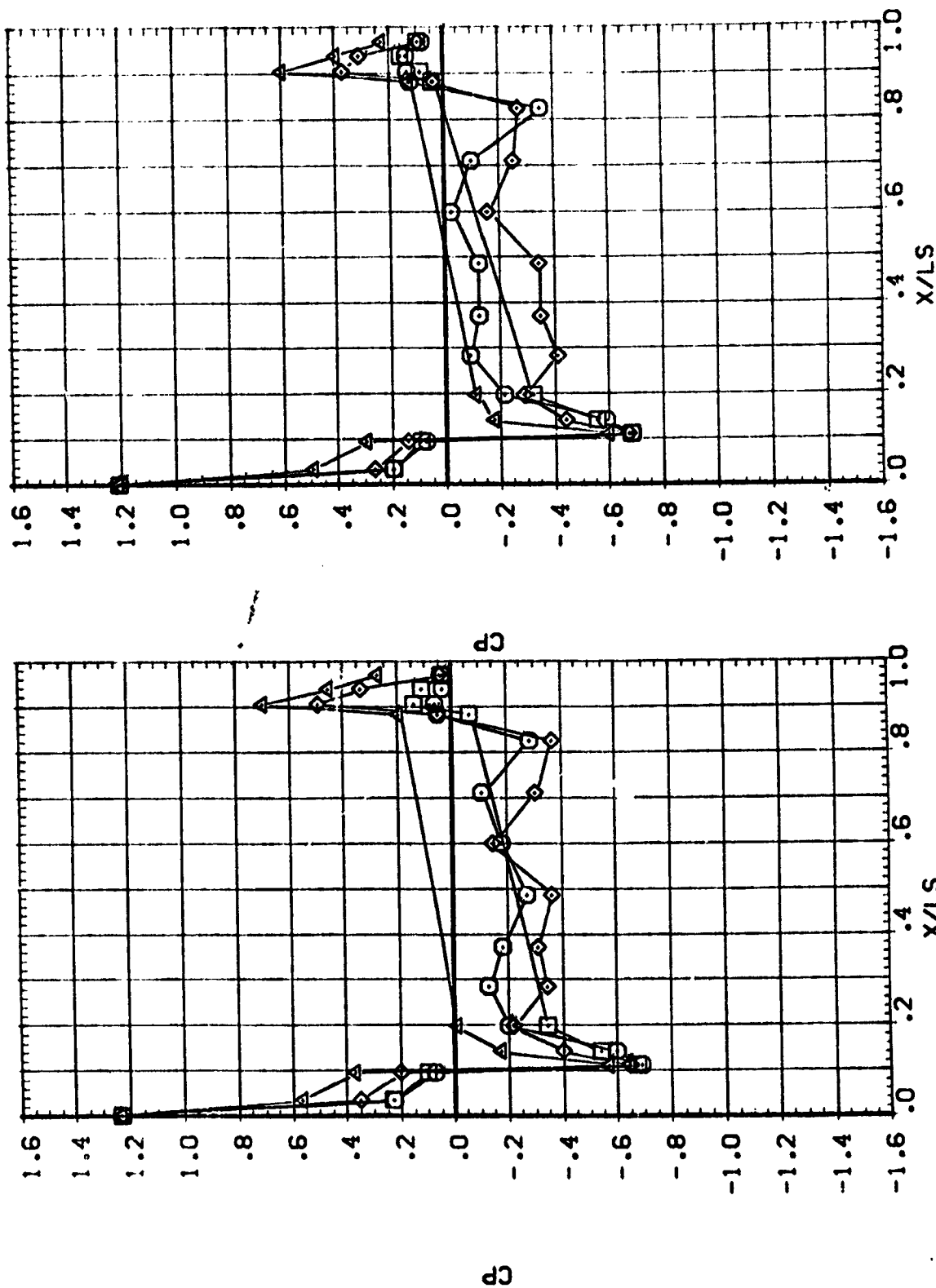
SYMBOL
□
◇
△

PHI .000
45.000
90.000
135.000

BETAT -4.080
.020

MACH 1.102

PARAMETRIC VALUES
ALPHAT -8.000
RUDDER .000
RUDFLR .000
ORBITINC .500
ELEVON .000

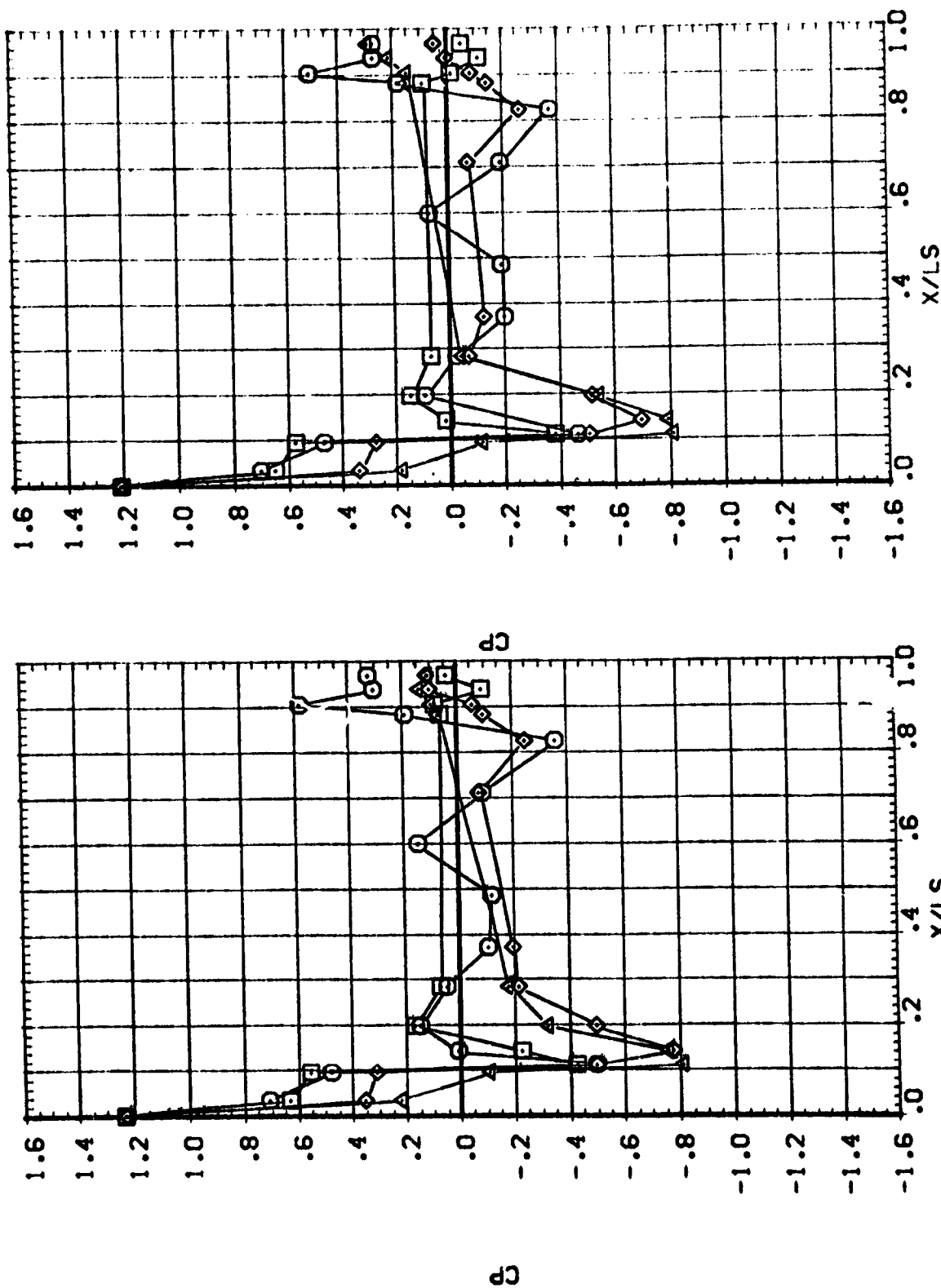


LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES



AMES 11-707 1A9 02A + S3 + T9 SRM BOOSTER (RBMS03)

SYMBOL	PHI	BETAT	MACH	PARAMETRIC VALUES	
○	180.000	-4.080	1.102	ALPHAT	-8.000
□	225.000	.020		RJDOER	.000
◇	270.000			RJDOFLR	.000
△	315.000				



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES



AMES 11-707 1A9 02A + S3 + T9 SRM BOOSTER

(RBMS03)

SYMBOL

○ □ ◇ △

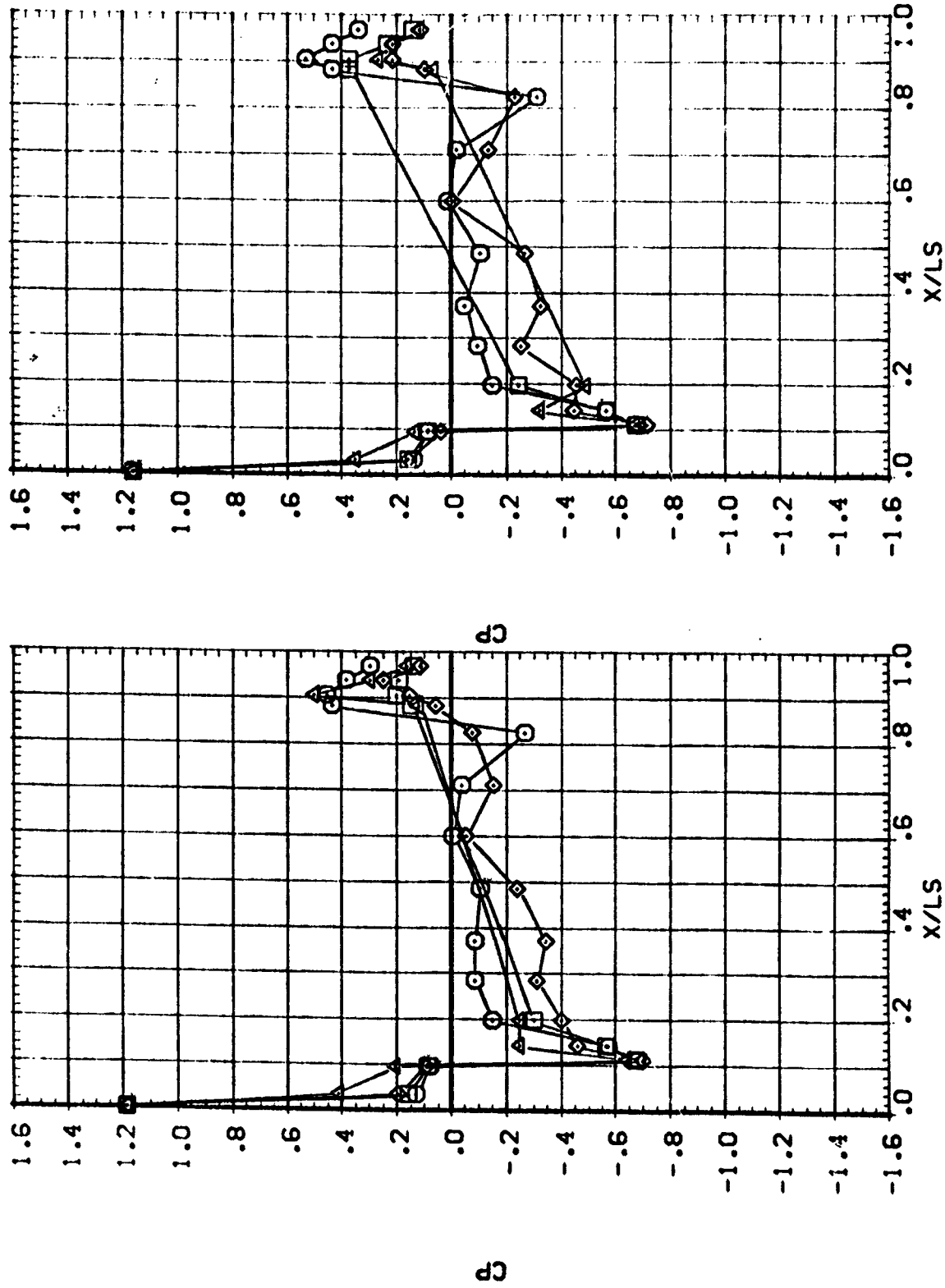
PHI .000
45.000
90.000
135.000

BETAT 4.160
7.800

MACH 1.100

PARAMETRIC VALUES

ALPHAT -9.000 ORBINC .500
RUDER .000 ELEVON .000
RUFLR .000



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES



AMES 11-707 1A9 02A + S3 + T9 SRM BOOSTER

(RBMS03)

SYMBOL

PHI
180.000
225.000
270.000
315.000

BETAT
4.160
7.800

MACH
1.100

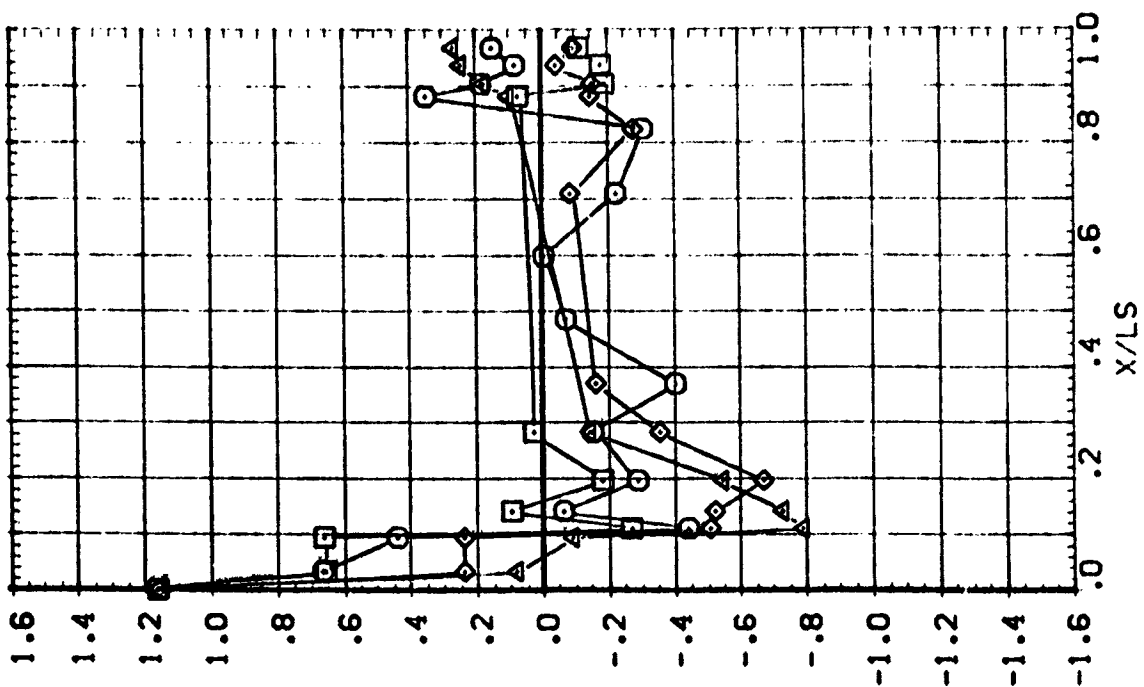
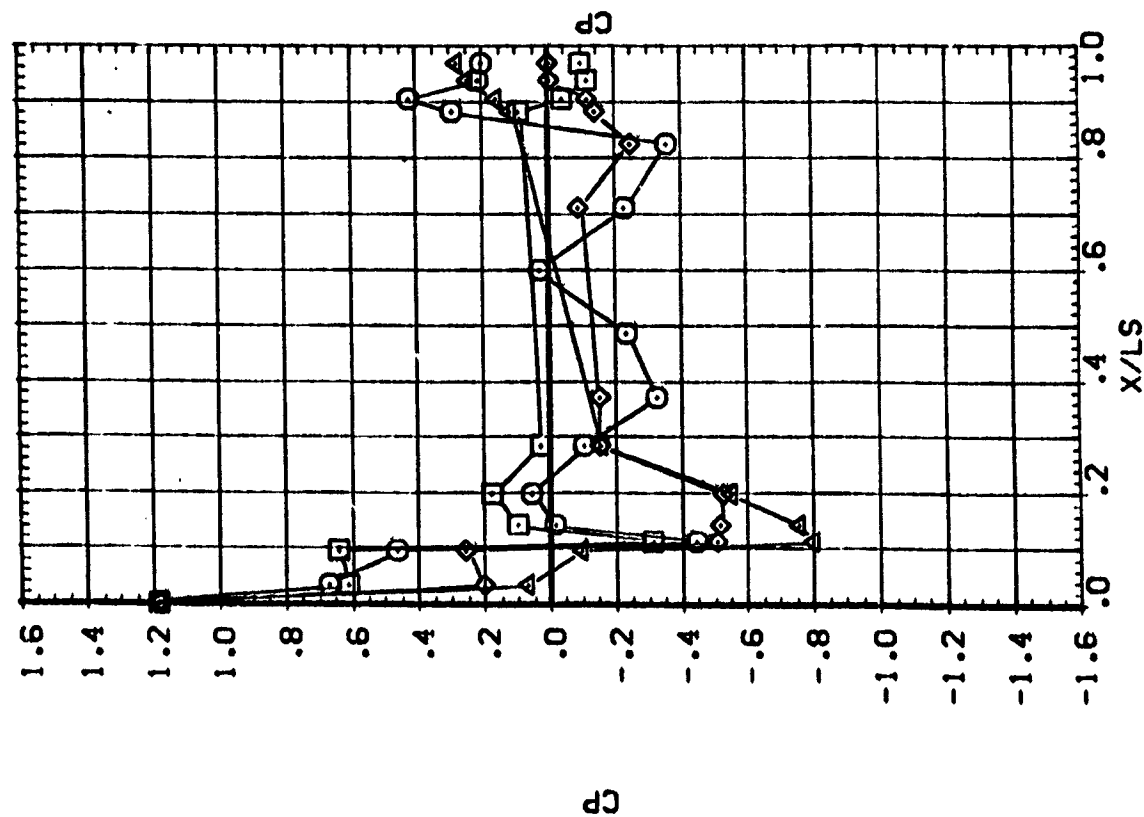
PARAMETRIC VALUES

ALPHAT
RUDER
RUDFLR

-8.000
.000
.000

ORBINC
ELEVN

.500
.000



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

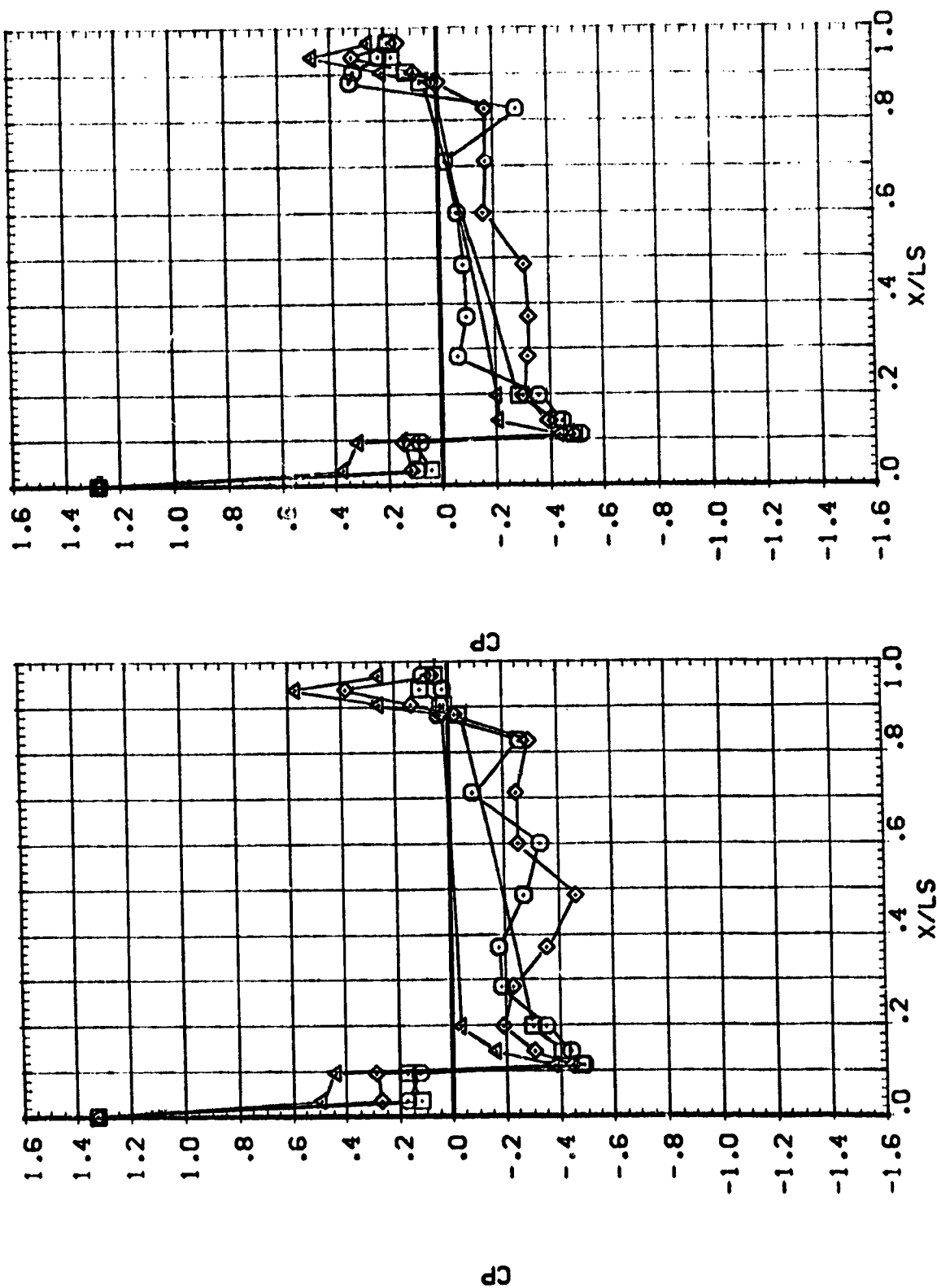


AMES 11-707 1A9 02A + S3 + T9 SRM BOOSTER (RBMS03)

SYMBOL
O
I
◇
△

PMI BETAT MACH
.000 -4.050 1.245
45.000 2.080
90.000
135.000

PARAMETRIC VALUES
ALPHAT -8.000 ORBINZ .500
RUDDER .000 ELEVON .000
RUFLR .000



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES



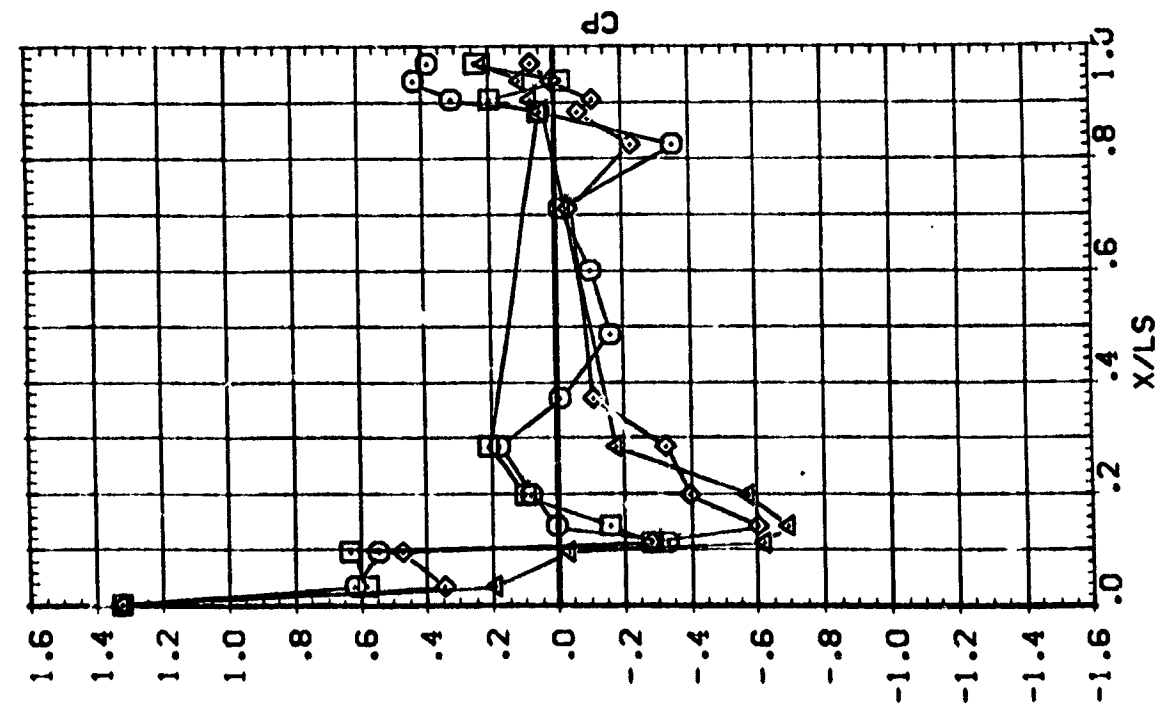
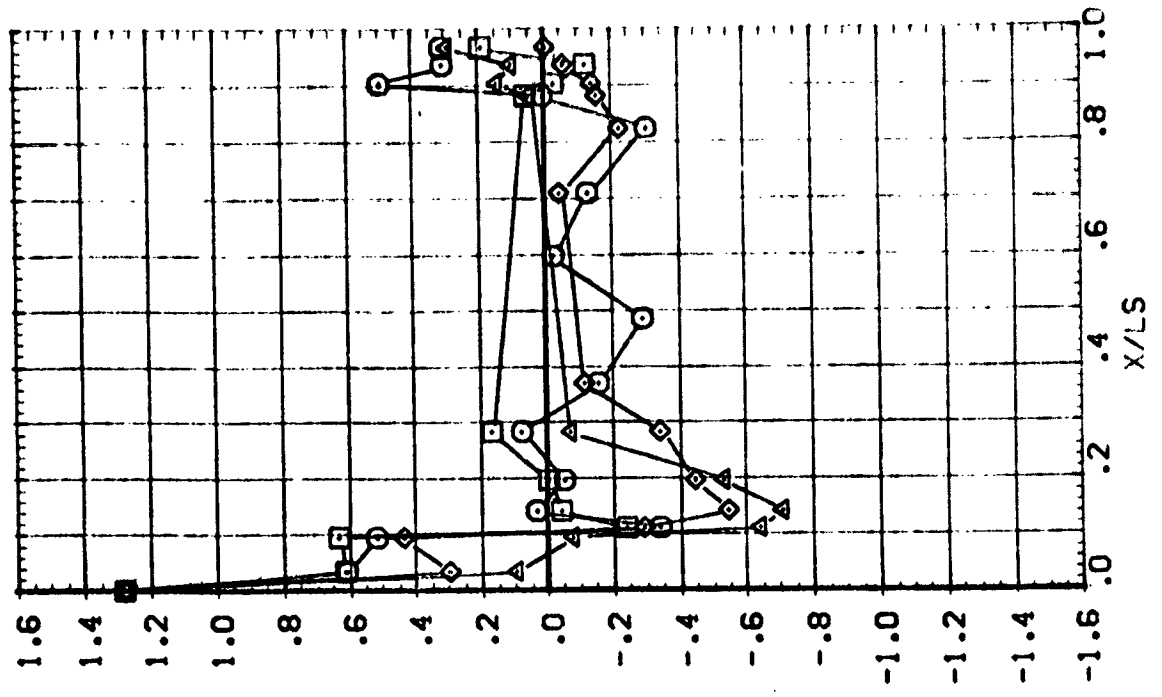
AMES 11-707 1A9 02A + S3 + T9 SRM BOOSTER

(RBMS03)

PARAMETRIC VALUES
ALPHAT -8.000 DRBINC .500
RUDDER .000 ELEVON .000
RUDFLR .000

SYMBOL P41 BETAT MACH
180.000 -4.050 1.245
225.000 2.080
270.000
315.000

□ ◇ △



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES



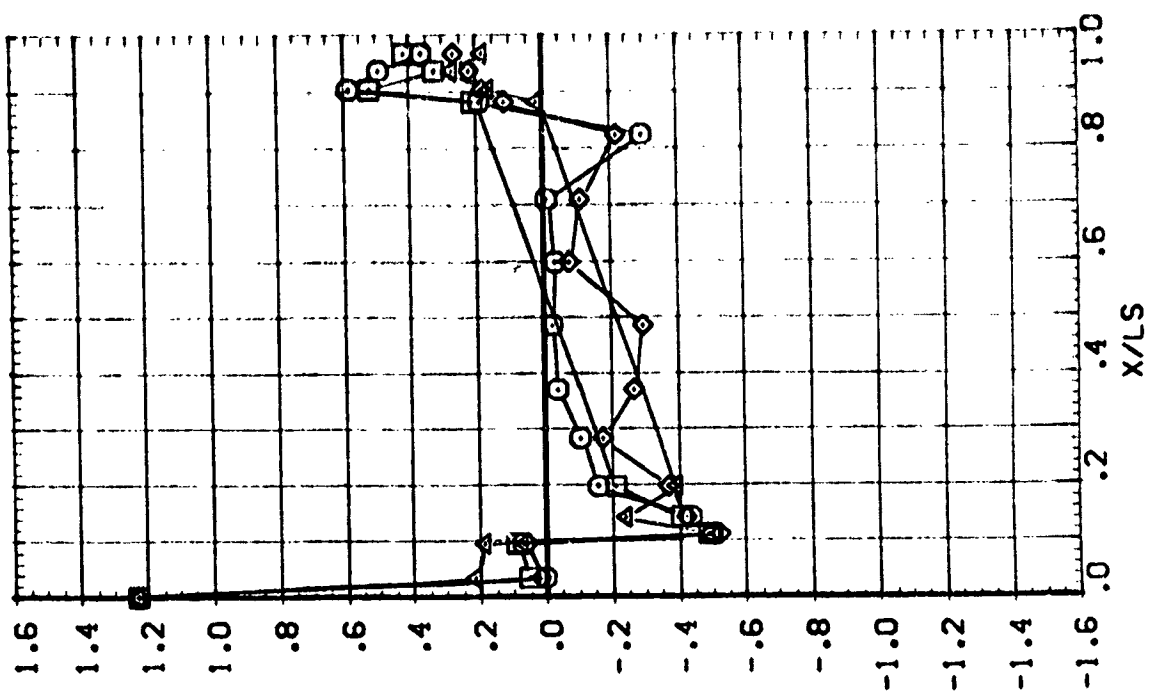
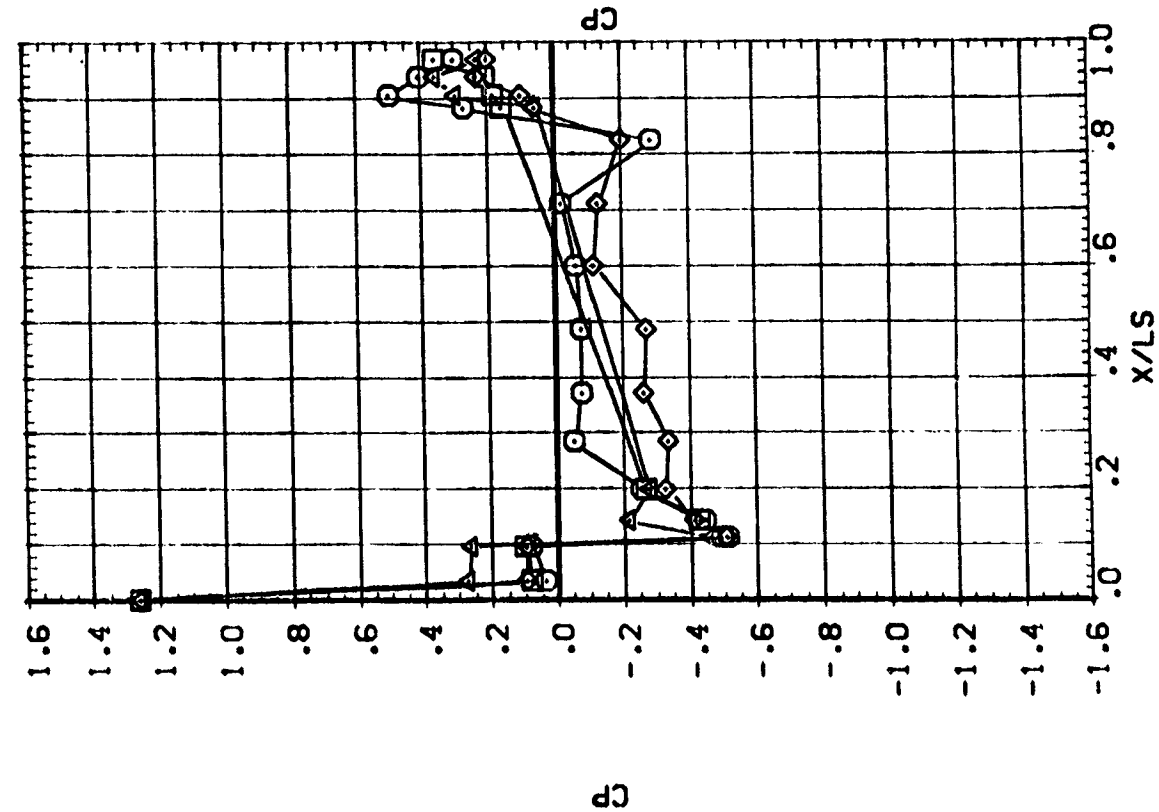
AMES 11-707 1A9 02A + S3 + T9 SRM BOOSTER

(RBMS03)

SYMBOL
□ I O Δ

PHI .000 4.140 1.247
45.000 8.250
90.000
135.000

PARAMETRIC VALUES
ALPHA -8.000 DBEVC
RUDDER .000 ELEVEN
RUDDER .000



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES



0.7

AMES 11-707 1A9 02A + S3 + T9 SRM BOOSTER

(RBMS03)

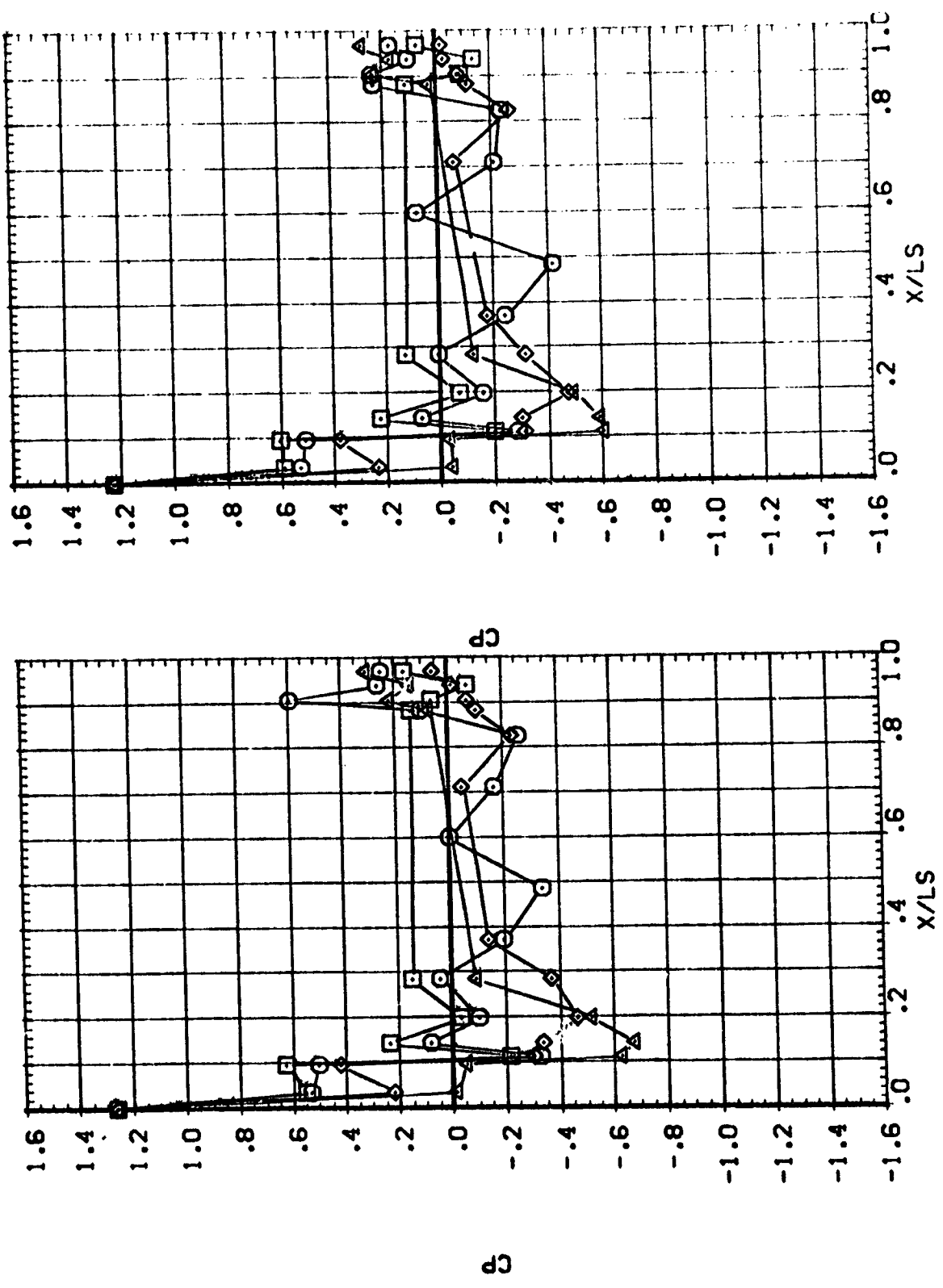
SYMBOL
O
□
◇
△

PHI 180.000
225.000
270.000
315.000

BETAT 4.140
8.250

MACH 1.247

PARAMETRIC VALUES
ALPHAT -8.000
RLODPR .000
ORBITINC .000
ELEVON .000



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

AMES 11-707 1A9 02A + S3 + T9 SRM BOOSTER

(RBMS05)

SYMBOL

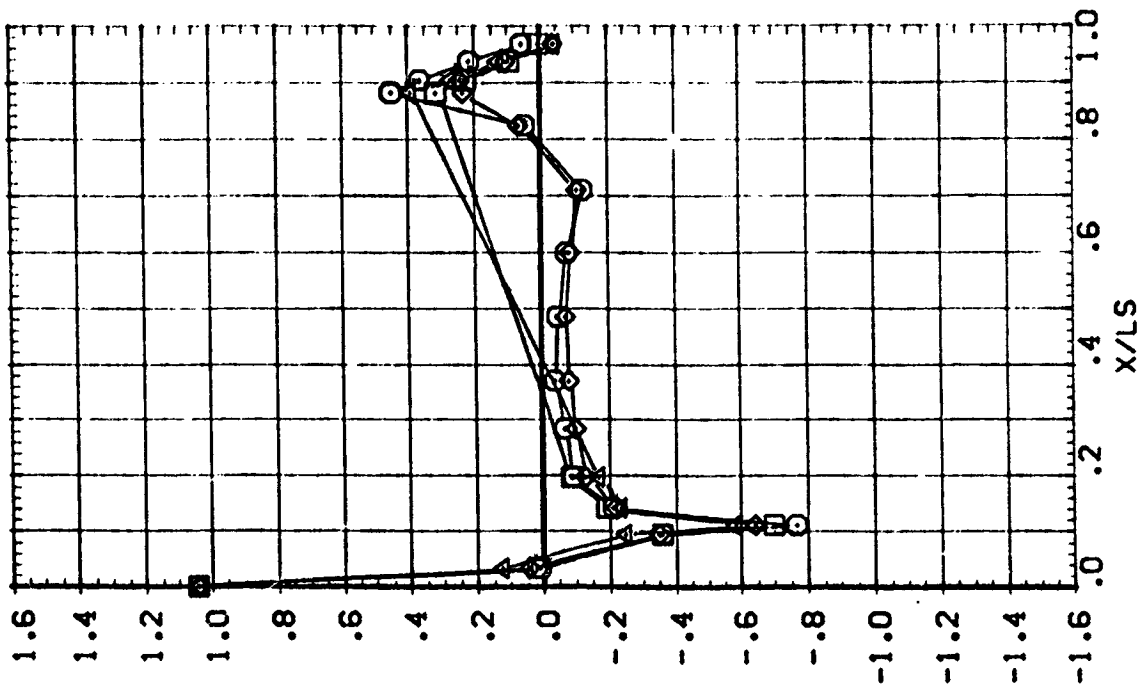
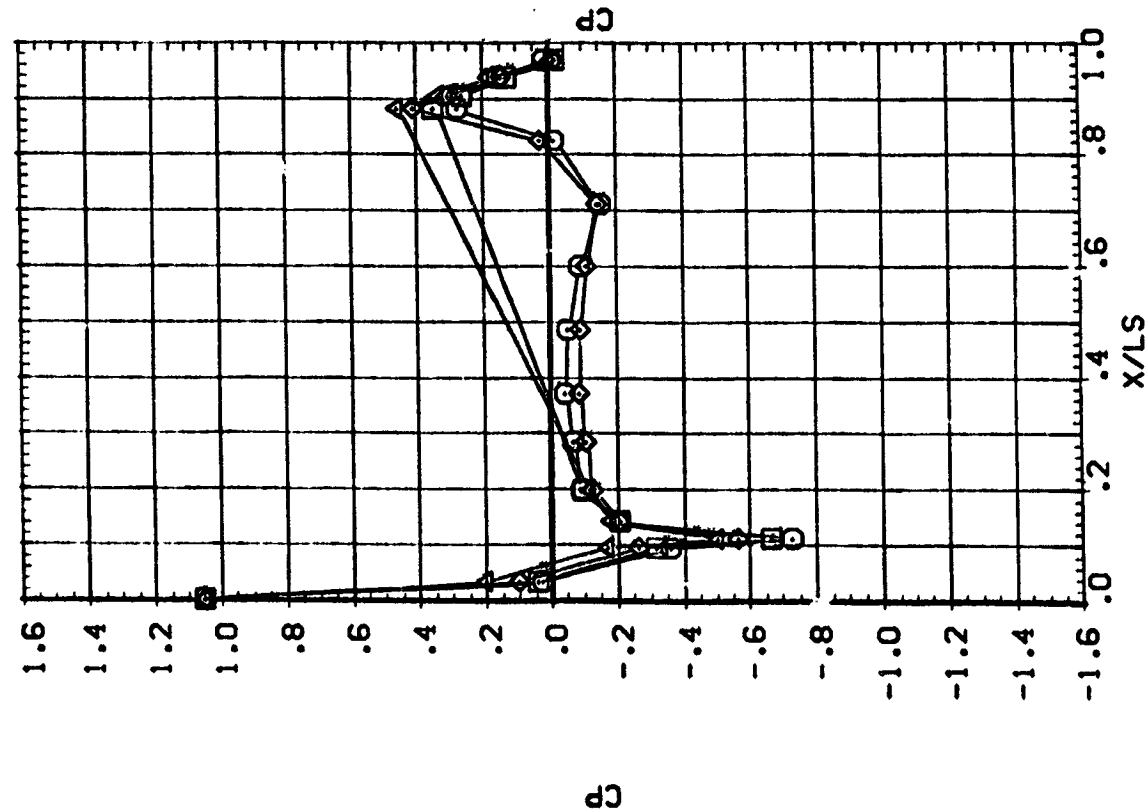
PHI
45.000
90.000
135.000

BETAT
.020
4.080

MACH
.600

PARAMETRIC VALUES
ALPHAT
RUDDER
RUDFLR

-4.000
.000
.000
ORBINC
ELEVON
.500
.000
.000



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES



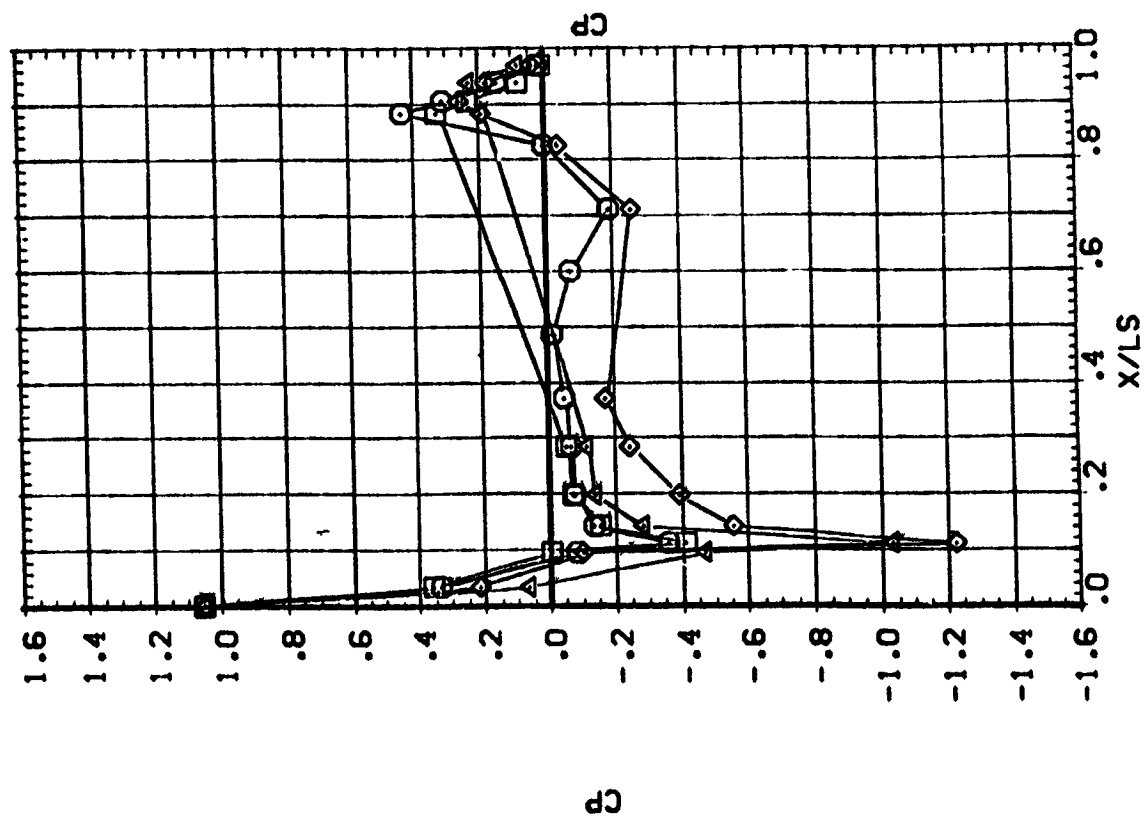
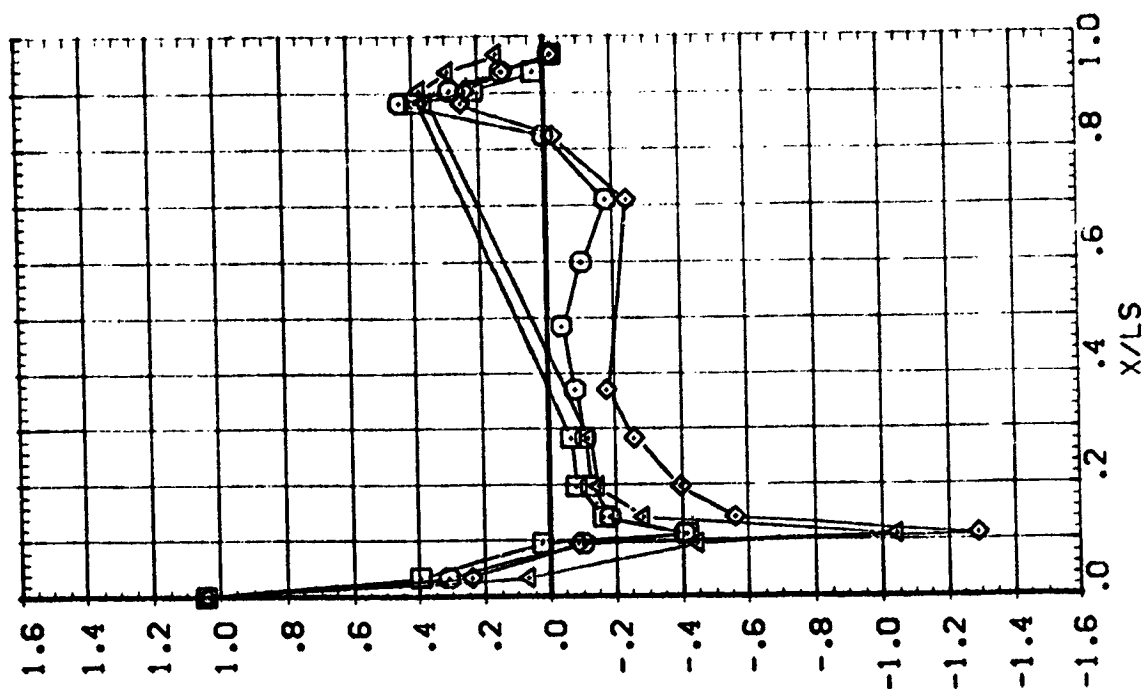
(RBMS05)

AMES 11-707 1A9 02A + S3 + T9 SRM BOOSTER

PARAMETRIC VALUES
ALPHAT -4.000 ORBINC .500
RUDDER .000 ELEVEN .000
R2OFLR .000

PHI BETAT MACH
180.000 .020 .600
225.000 4.080
270.000
315.000

SYMBOL
○ □ ◇ △



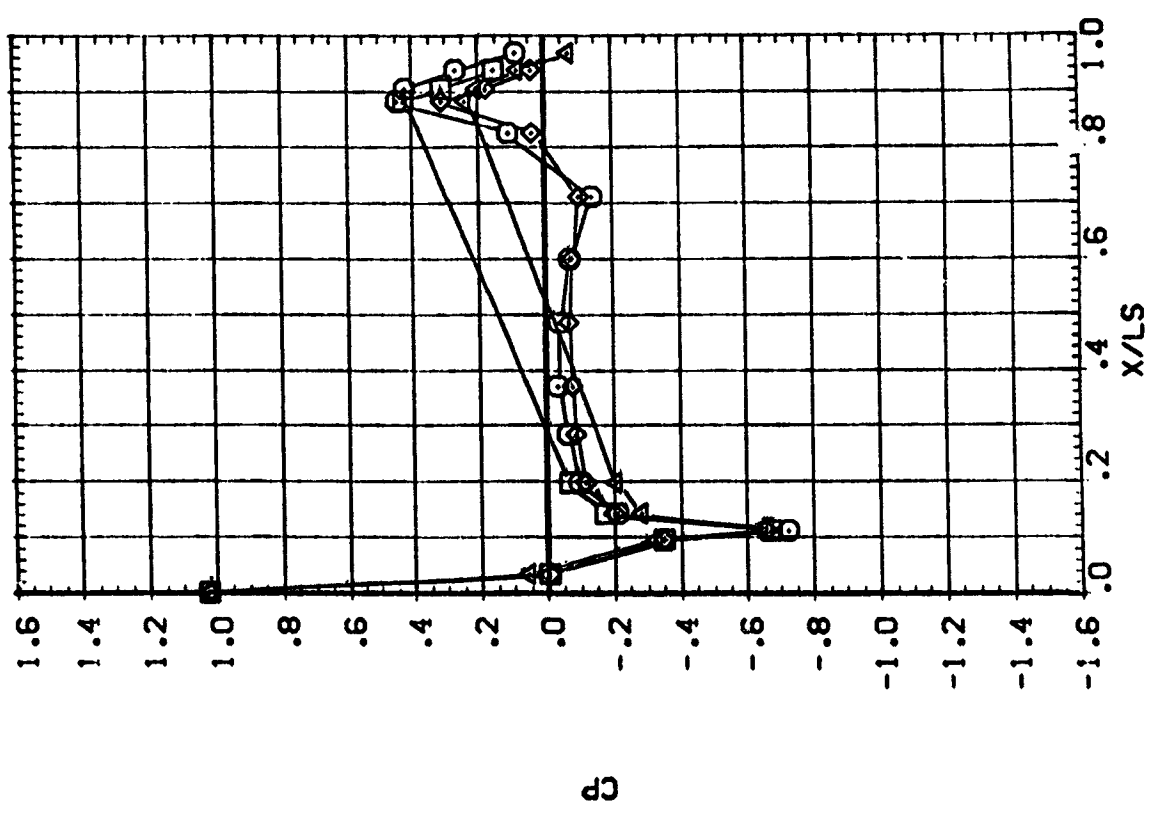
LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES



AMES 11-707 1A9 02A + S3 + T9 SRM BOOSTER

(RBMS05)

SYMBOL	PHI	BETAT	MACH	PARAMETRIC VALUES
○	.000	8.150	.599	ALPHAT
◇	45.000			RUDDER
□	90.000			RUDFLR
△	135.000			
				-4.000 ORBITC
				.000 ELEVON
				.500
				.000



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES



AMES 11-707 1A9 02A + S3 + T9 SRM BOOSTER

(RBMS05)

SYMBOL

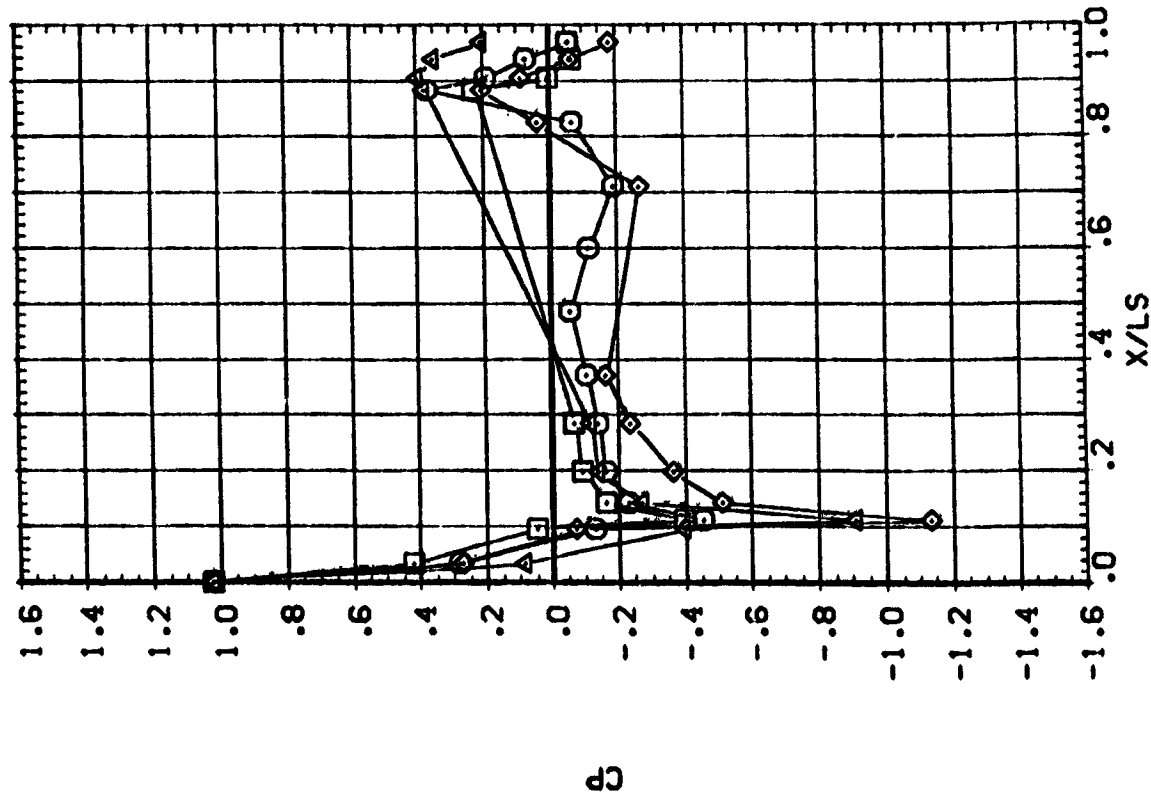
PHI
180.000
225.000
270.000
315.000

BETAT
8.150

MACH
.599

PARAMETRIC VALUES

ALPHA-T
RUDDER
R.O.F.L.R
-4.000
.000
.000
ORBITAL
ELEVON
.500
.000

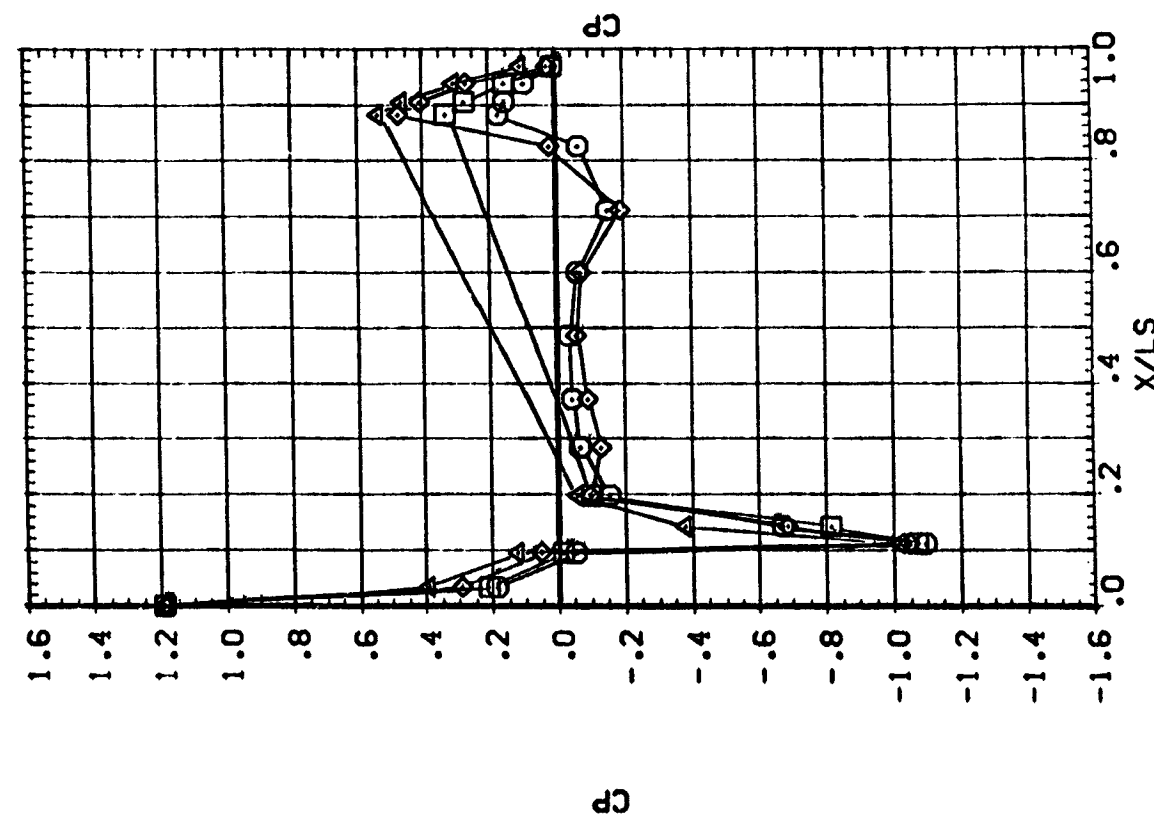
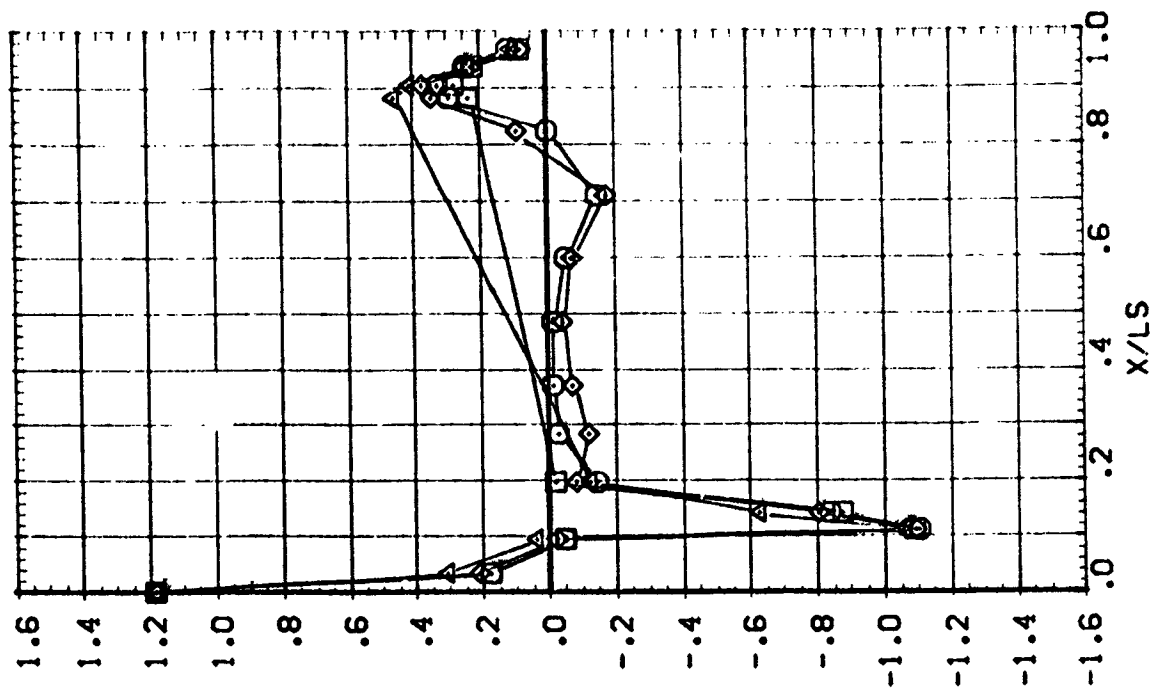


LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

AMES 11-707 1A9 C2A + S3 + T9 SRM BOOSTER

(RBMS05)

SYMBOL	PARAMETRIC VALUES		
	ALPHAT	ORBITINC	ELEVON
□	-4.000	.000	.000
◇	.000	.000	.000
△	.000	.000	.000



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES



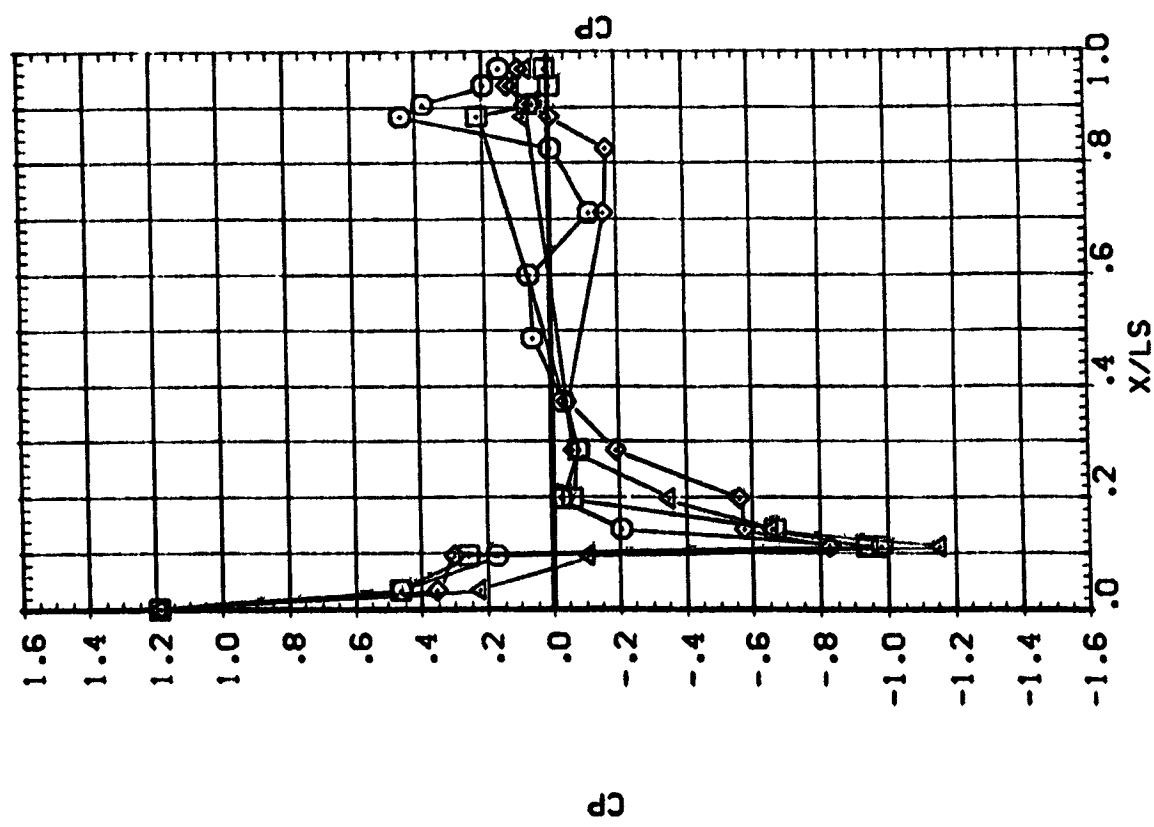
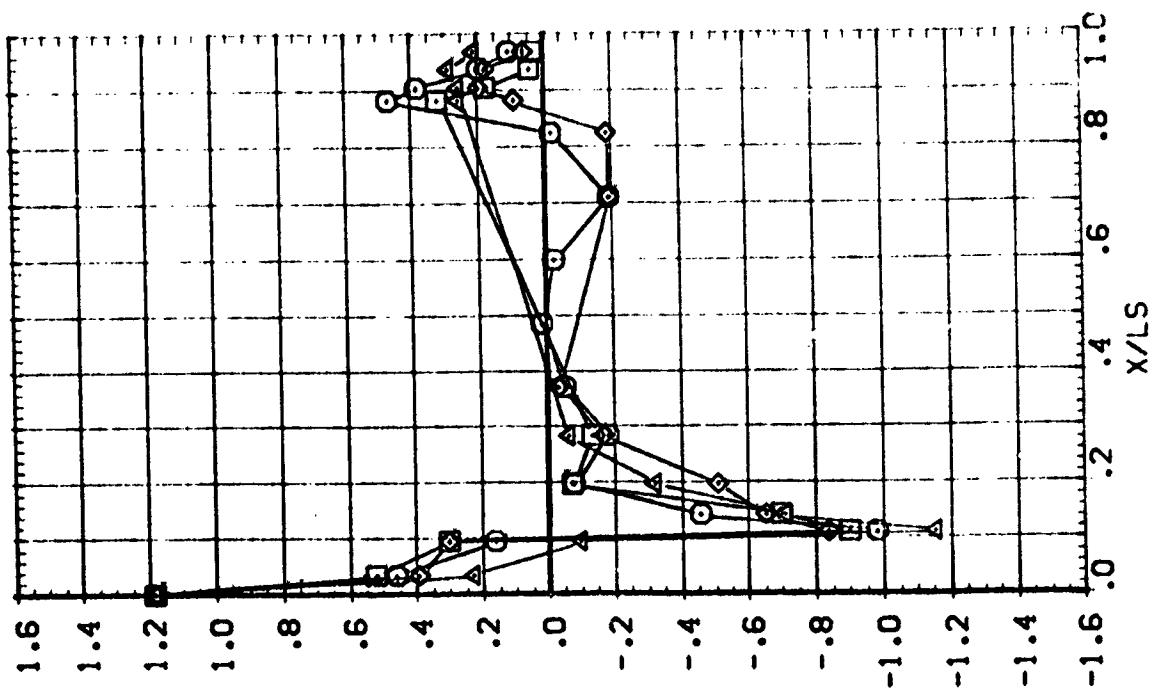
AMES 11-707 1A9 02A + S3 + T9 SRM BOOSTER

(RBMS05)

PARAMETRIC VALUES
ALPHAT -4.000 ORBINC .500
RUDDER .000 ELEVON .000
RUOFLR .000

PHI 180.000 MACH .902
225.000
270.000
315.000

SYMBOL
O
◇
△



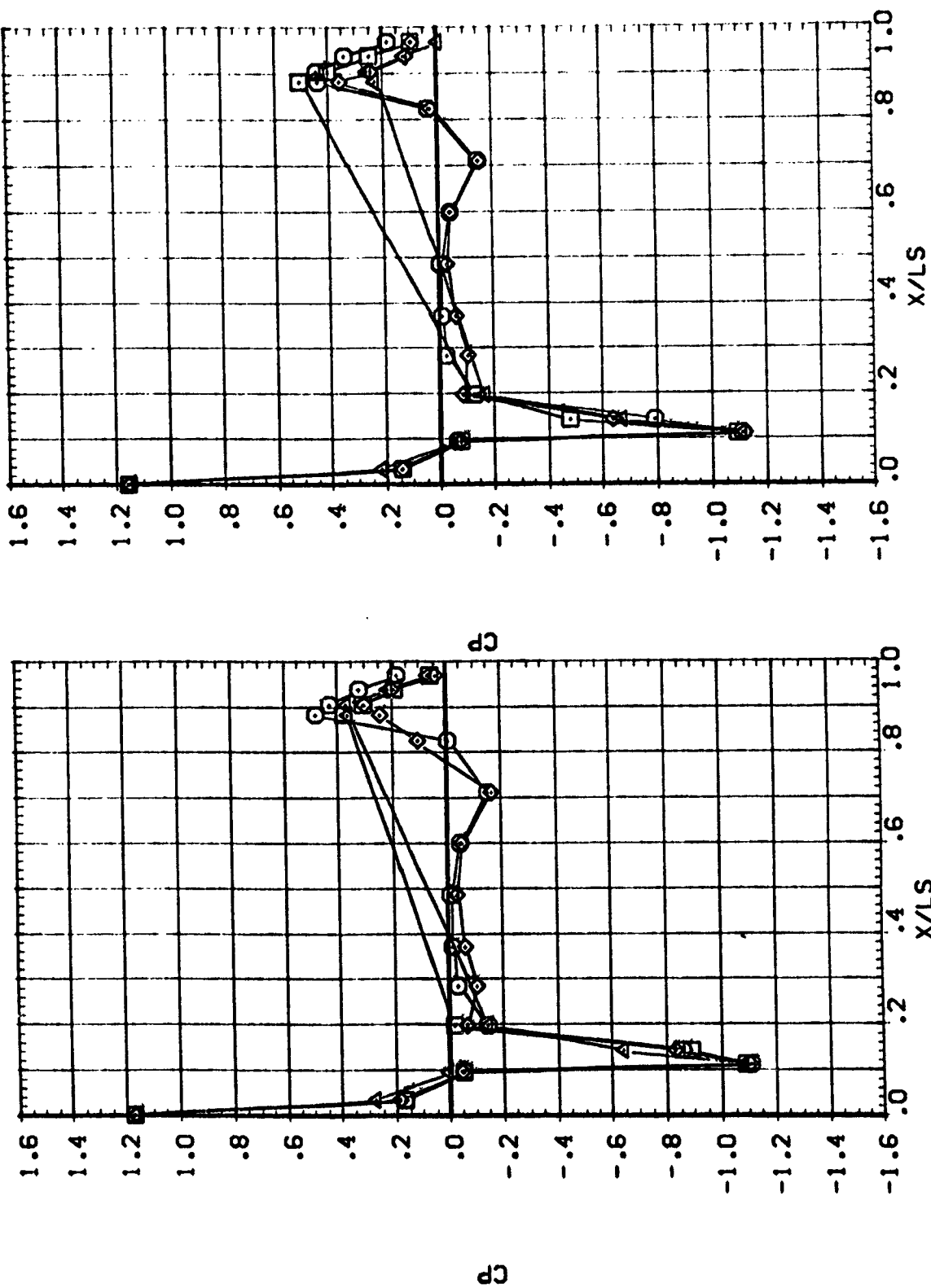
LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES



AMIS 11-707 1A9 02A + S3 + T9 SRM BOOSTER

(RBMS05)

SYNCH	PHI	BETAT	MACH	PARAMETRIC VALUES
0	.000	4.120	.900	ALPHA? .500
1	45.000	8.230		RUDER .000
2	90.000			ELEVEN .000
3	135.000			RUDFLR .000



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES



AMES 11-707 1A9 02A + S3 + T9 SRM BOOSTER

(RBMS05)

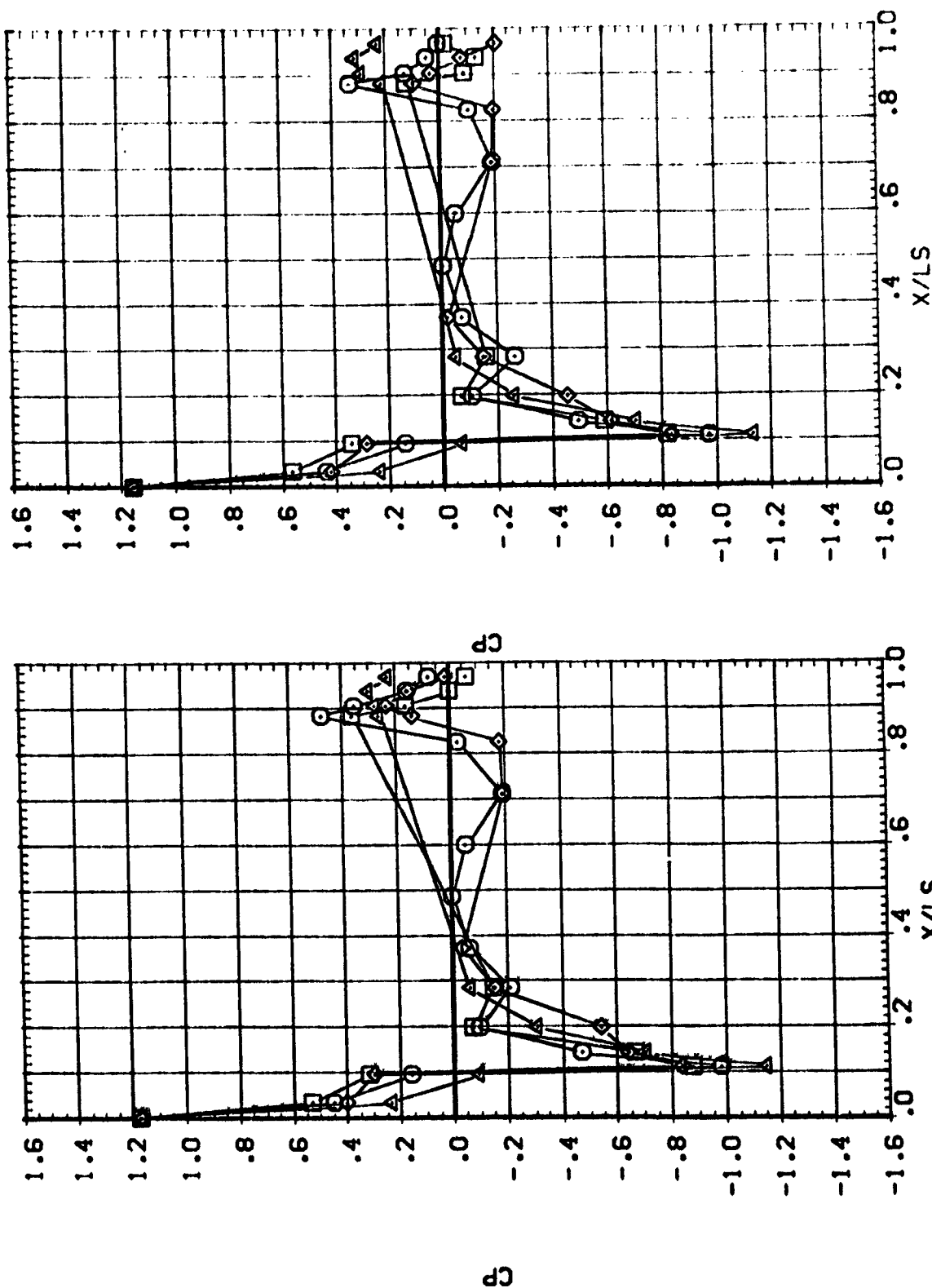
SYMBOL
○ □ ◇ △

PHI:
180.000
225.000
270.000
315.000

BETAT
4.120
8.230

MACH
.900

PARAMETRIC VALUES
ALPHAT -4.000 ORBINC .500
RLOOER .000 ELEVEN .000
RLOFLR .000



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES



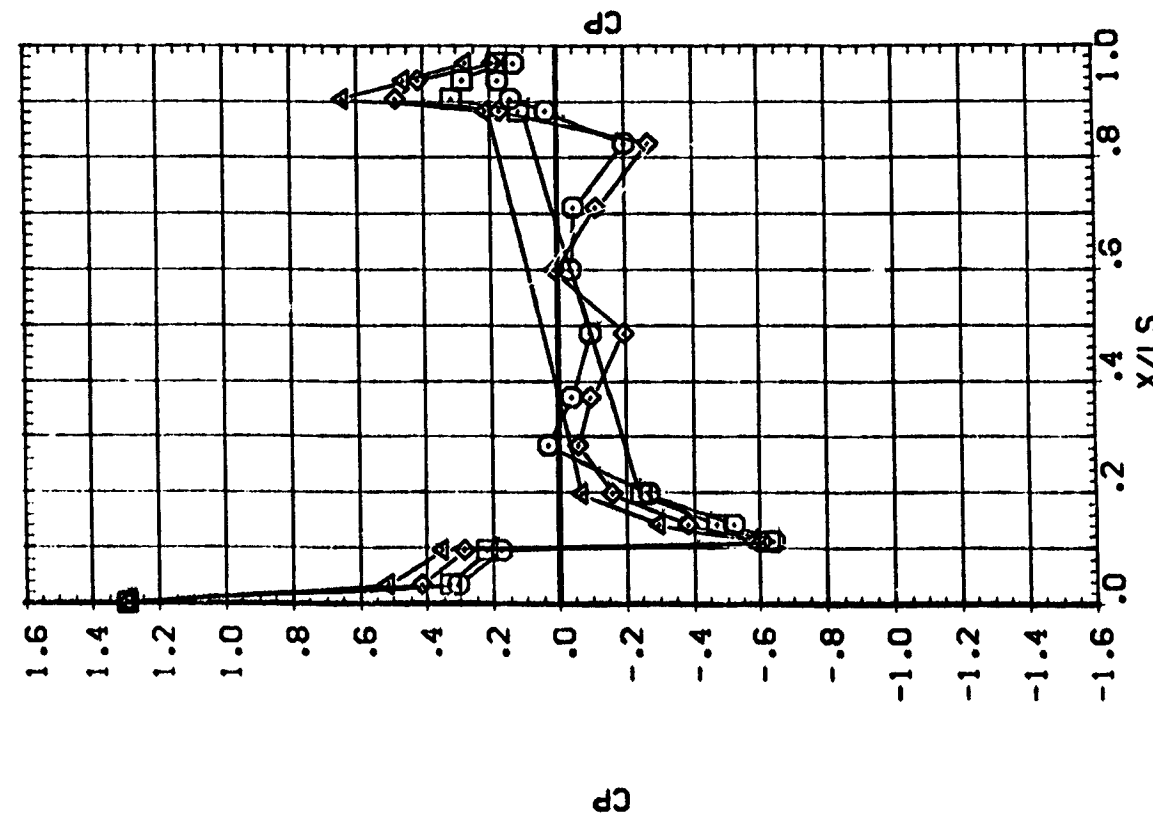
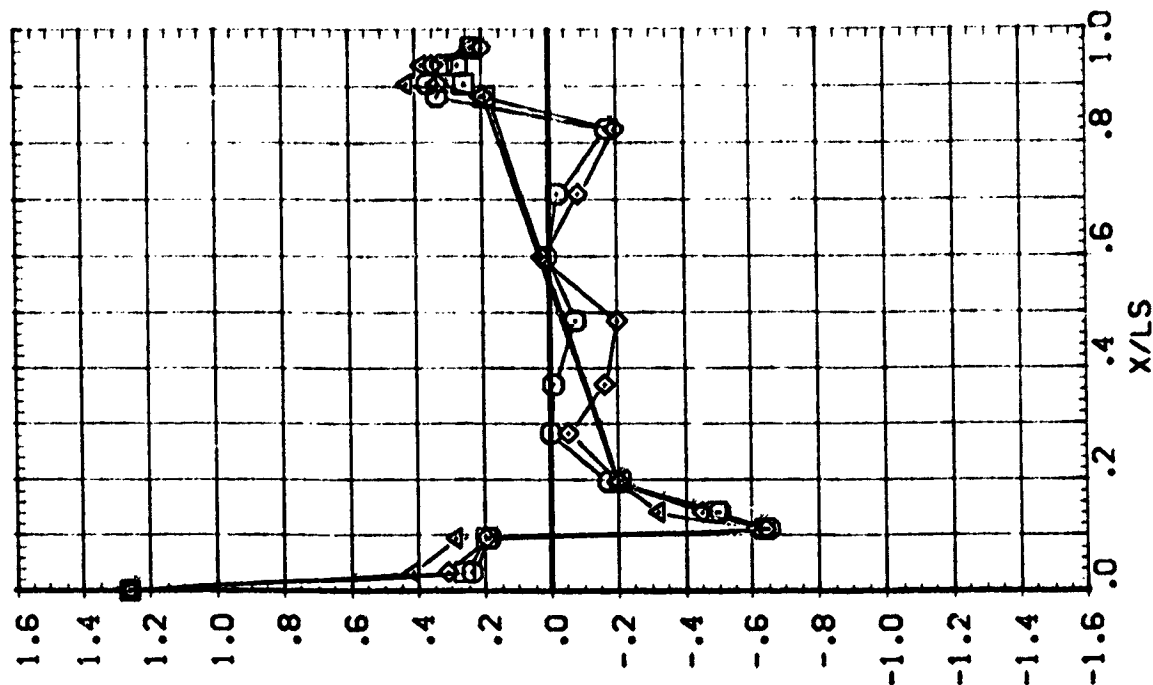
(RBMS05)

AMES 11-707 1A9 02A + S3 + T9 SRM BOOSTER

PARAMETRIC VALUES
ALPHA -4.000 DRBINC .500
RUDER .000 ELEVON .000
RUDFLR .000

PHI .000 BETA* -4.080 MACH 1.101
45.000 90.000
135.000

SYMBOL
□ ◇ △

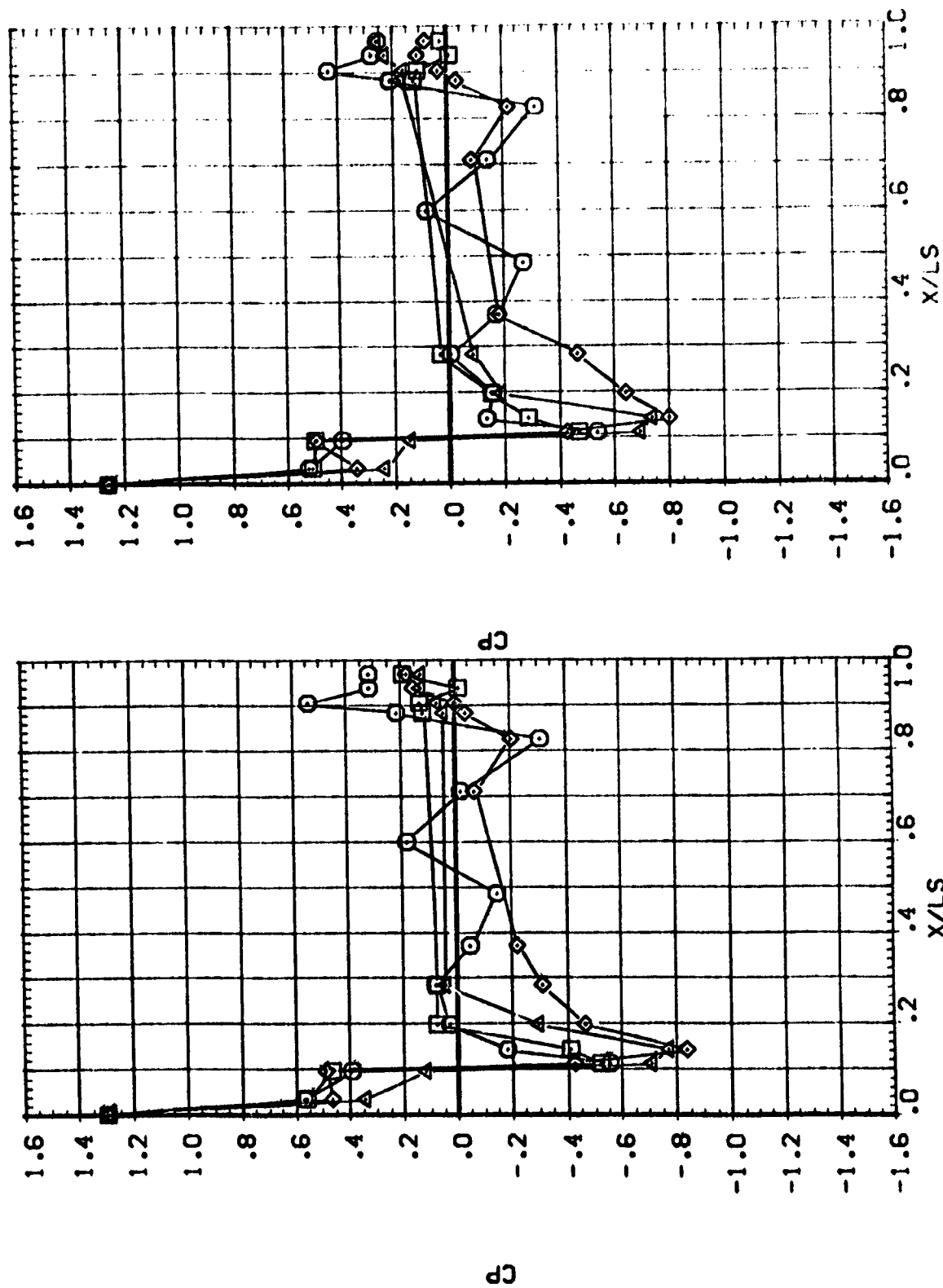


LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

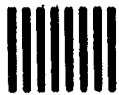


AMES 11-707 1A9 02A + S3 + T9 SRM BOOSTER (RBMS05)

SYMBOL	PHI	BETAT	MACH	PARAMETRIC VALUES
○	180.000	-4.080	1.101	ALPHAT
◇	225.000	2.080		RJDDER
△	270.000			RJOSLR
	315.000			



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES



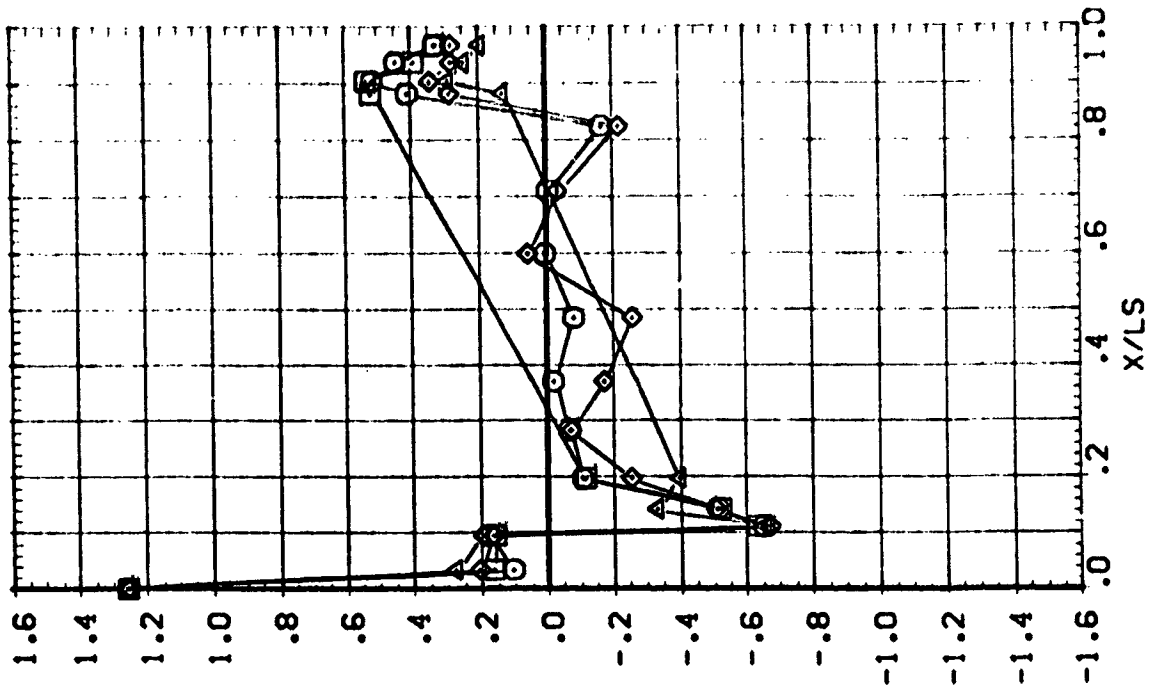
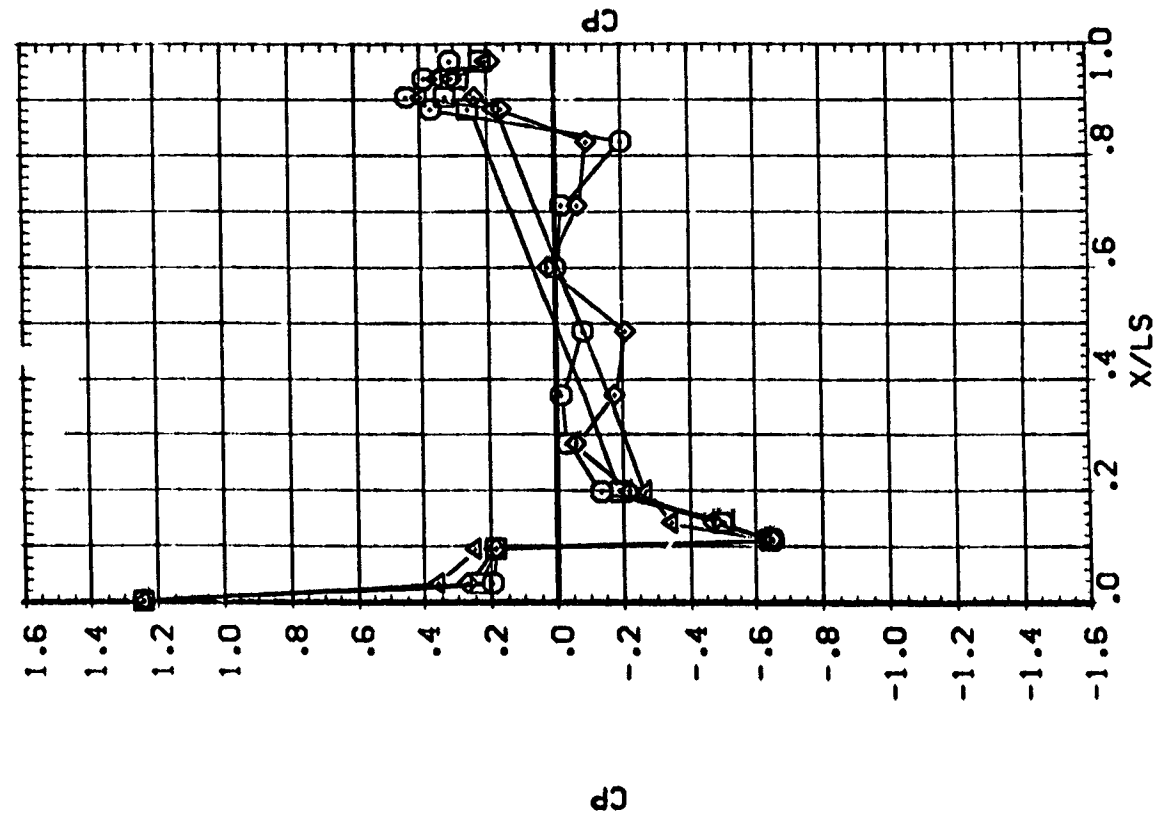
AMES 11-707 1A9 02A + S3 + T9 SRM BOOSTER

(RBMS05)

SYMBOL
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PH: .000 45.000 90.000 135.000
 BETAT 4.140 8.270
 MACH 1.102

PARAMETRIC VALUES
 ALPHAT -4.000
 RUDDER .000
 RUOFLR .000
 ORBITC .500
 ELEVON .000



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

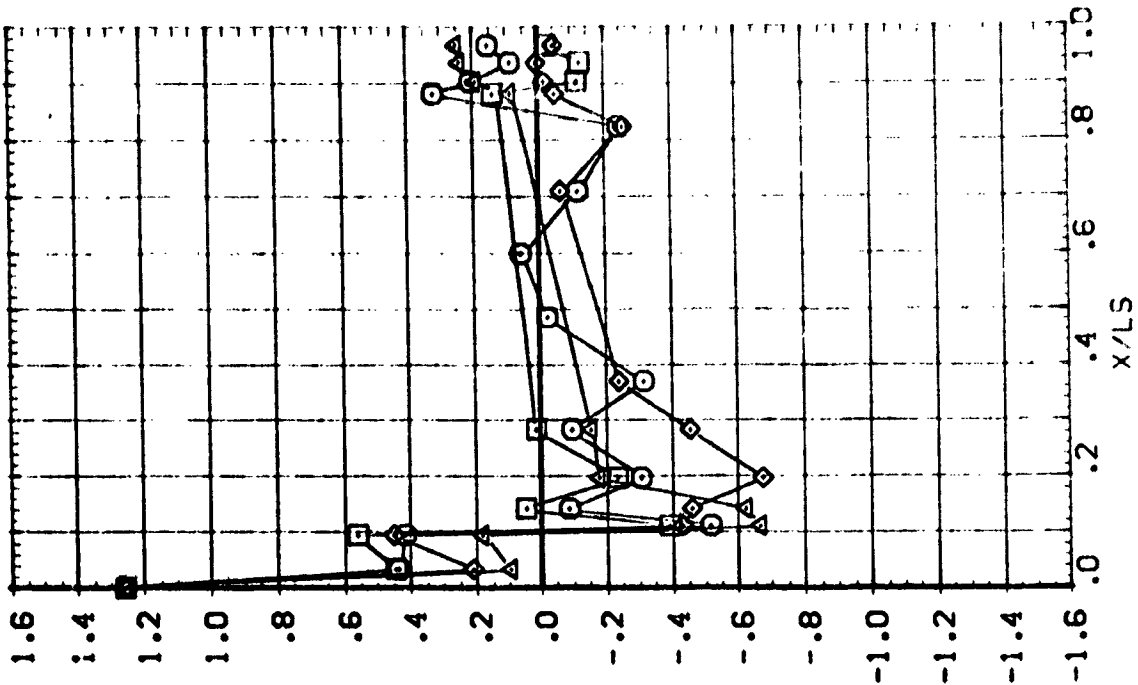
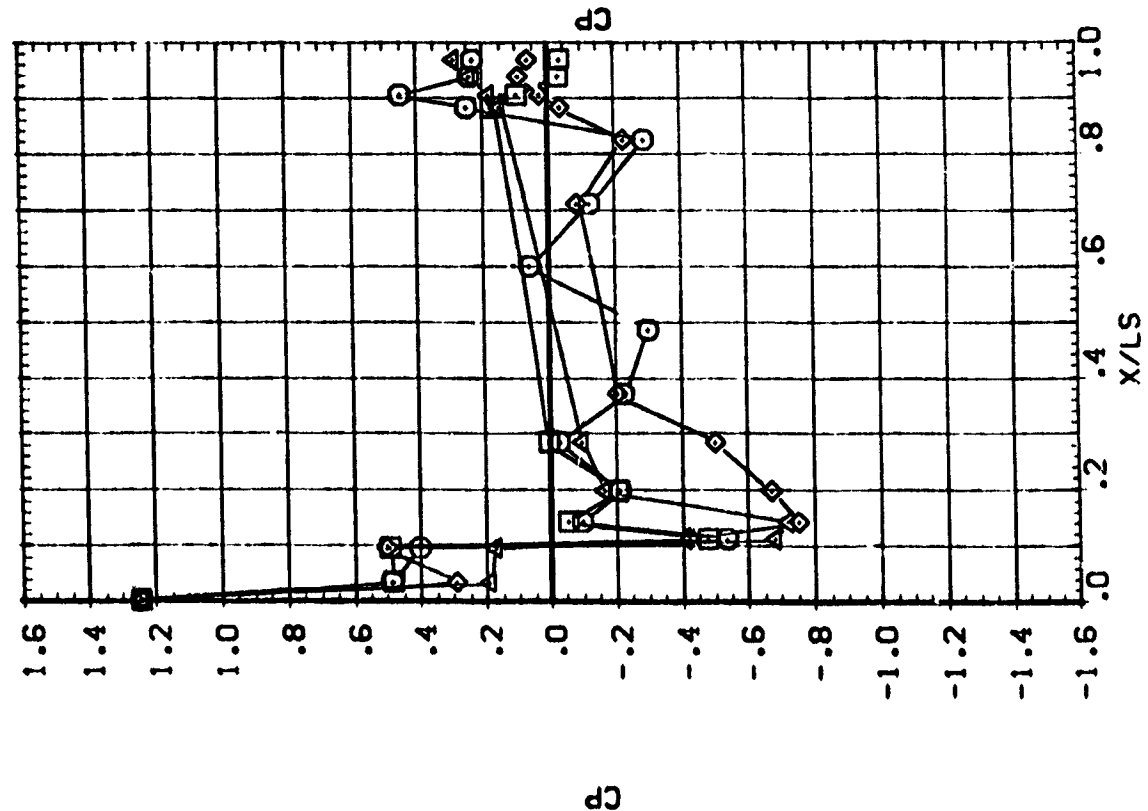


AMES 11-707 1A9 02A + S3 + T9 SRM BOOSTER

(RBMS05)

SYMBOL P-HI BETAT MACH
 O 180.000 4.140 1.102
 I 225.000 8.270
 D 270.000
 A 315.000

PARAMETRIC VALUES
 ALPHAT -4.000
 RUDDER .000
 RUJFLR .000
 CRBINC .500
 ELEVON .000



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES



4-2-4

(R8MS05)

AMES 11-707 1A9 02A + S3 + T9 SRM BOOSTER

SYMBOL
□
◇
△

PHI .000
45.000
90.000
135.000

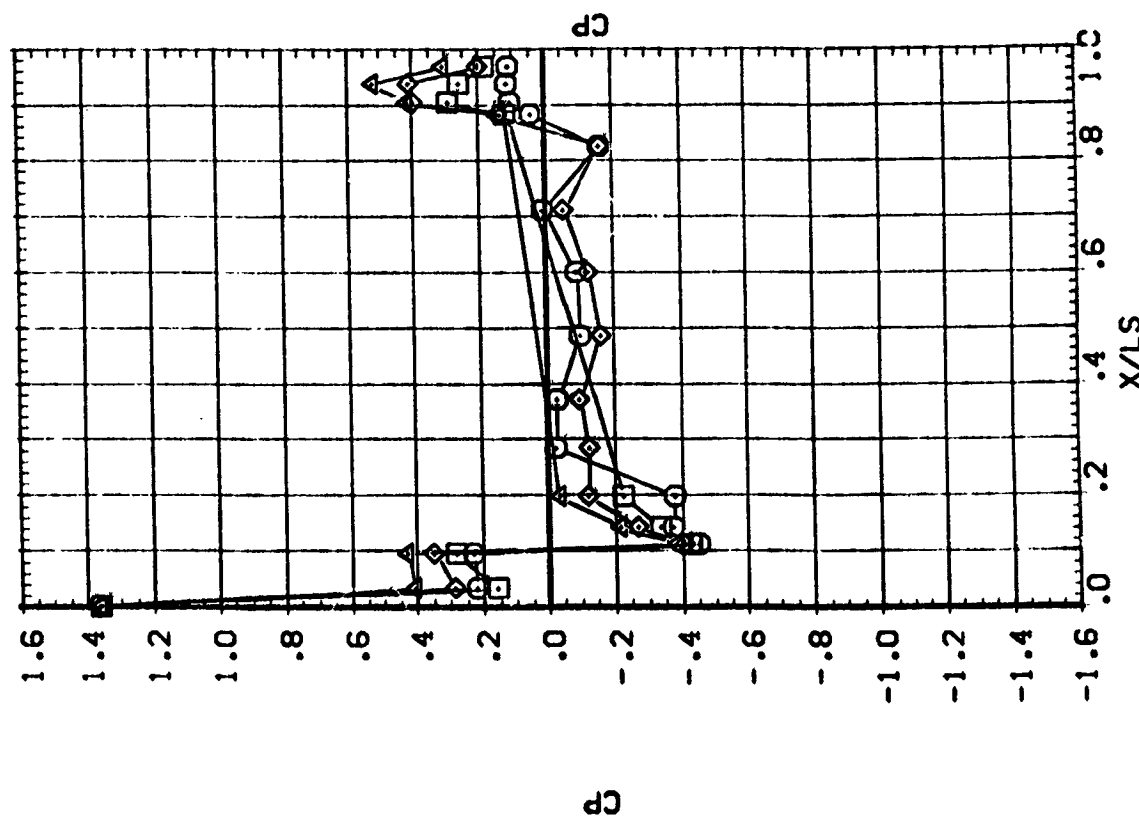
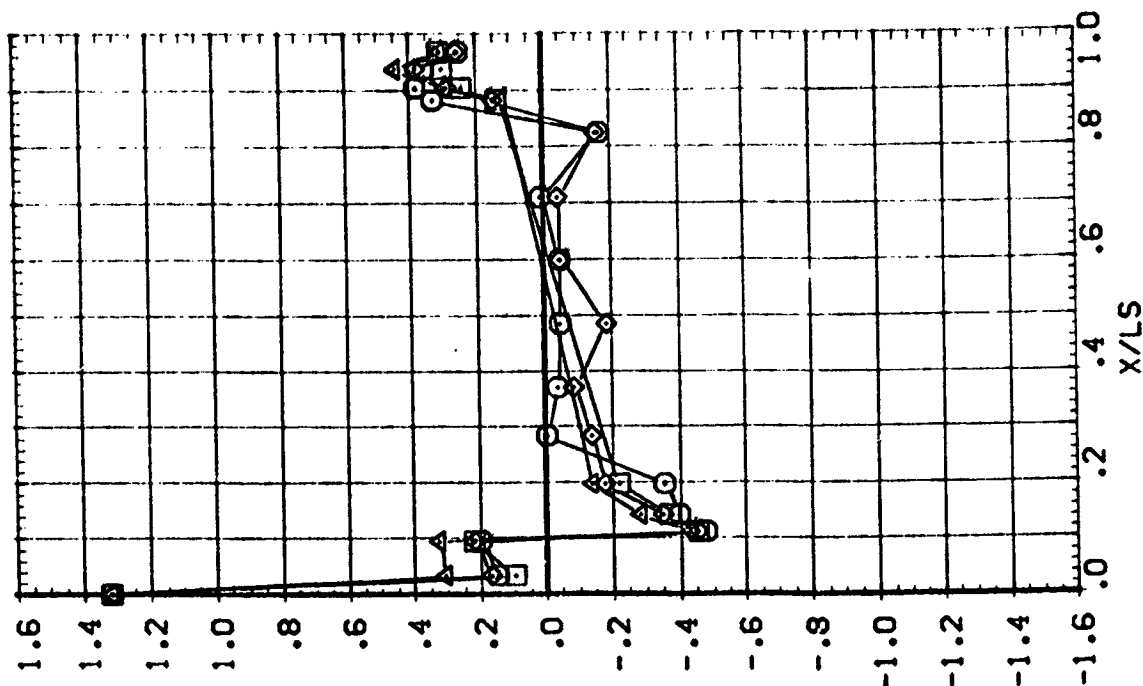
BETAT -4.060
2.060

MACH 1.245

PARAMETRIC VALUES

ALPHAT -4.000
RUDDER .000
RJOFLE .000

OSBINC .500
ELEVON .000



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES



AMES 11-707 1A9 02A + S3 + T9 SRM BOOSTER

(RBMS05)

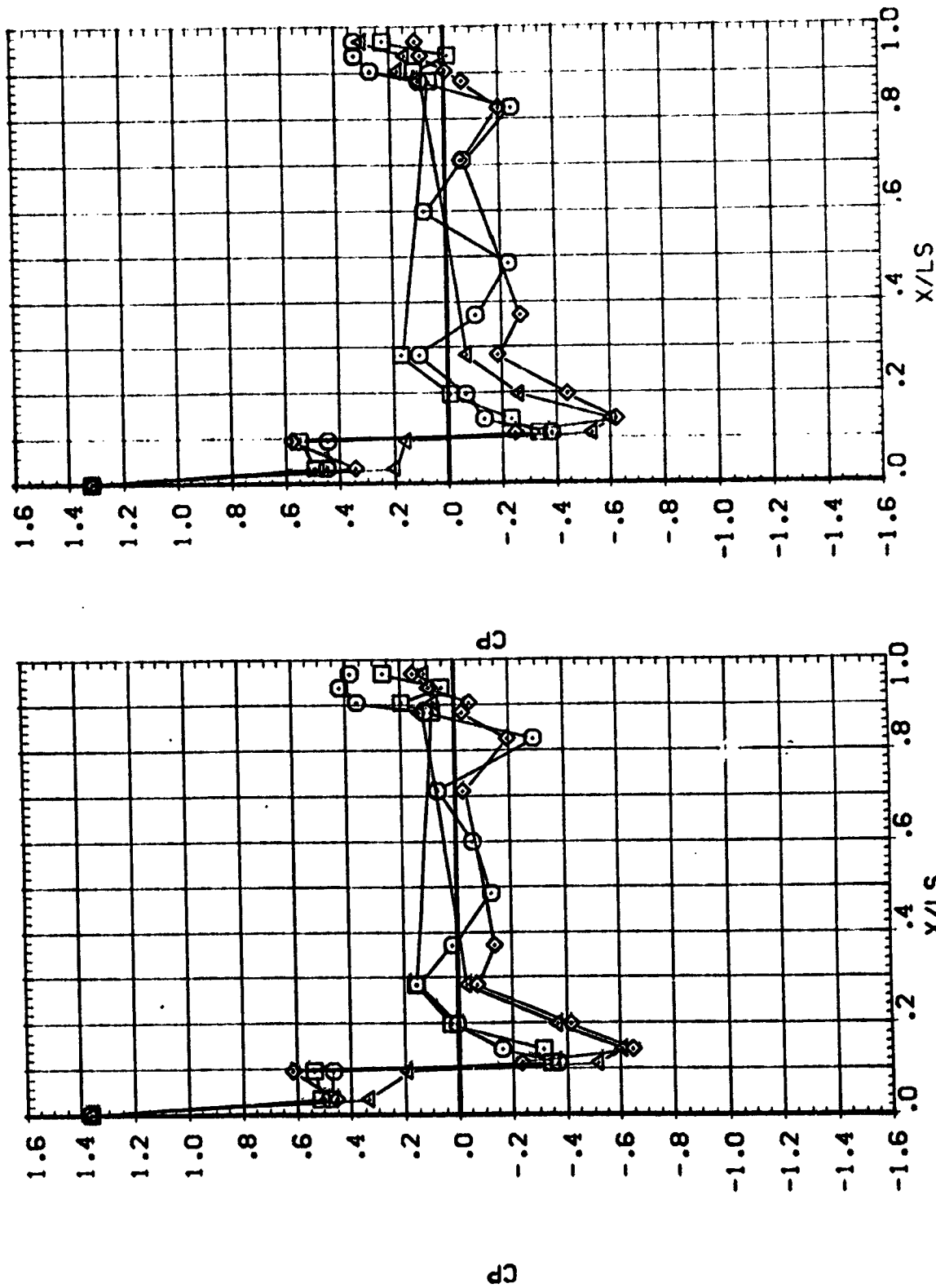
SYMBOL
○ □ ◇ △

PHI
180.000
225.000
270.000
315.000

BETAT
-4.060
2.060

MACH
1.245

PARAMETRIC VALUES
ALPHAT
R00ER
R00FLR
-4.000
.000
.000
ORBINZ
ELEVON
.500
.000



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES



AMES 11-707 1A9 02A + S3 + T9 SRM BOOSTER (RBMS05)

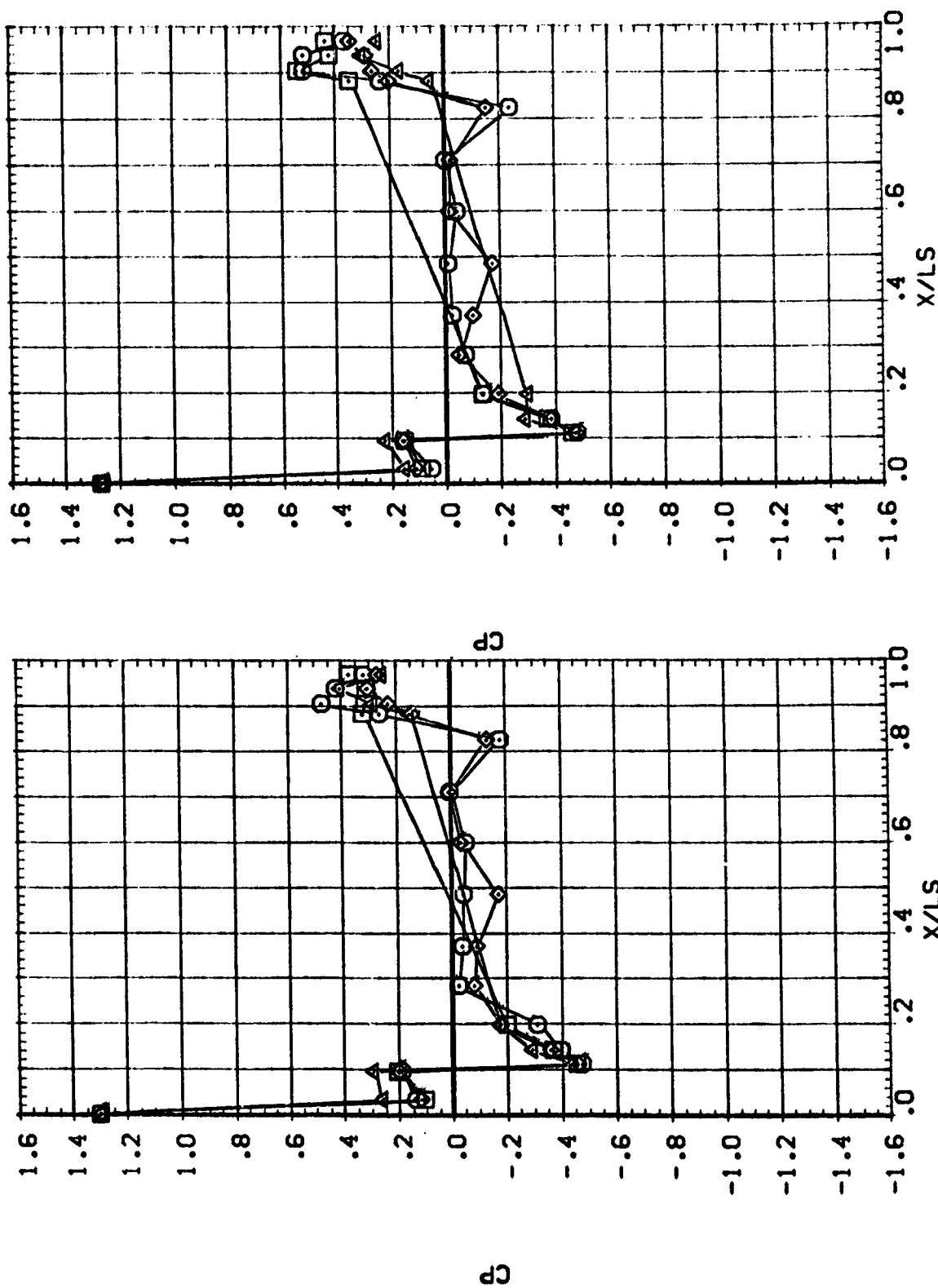
SYMBOL
O
□
◇
△

PHI
.000
45.000
90.000
135.000

BETAT
4.120
8.240

MACH
1.241

PARAMETRIC VALUES
ALPHAT -4.000 ORBINC .500
RUDDER .000 ELEVON .000
RUDELR .000



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES



AMES 11-707 1A9 02A + S3 + T9 SRM BOOSTER

(RBMS05)

SYMBOL

PHI
180.000
225.000
270.000
315.000

BETAT
4.120
8.210

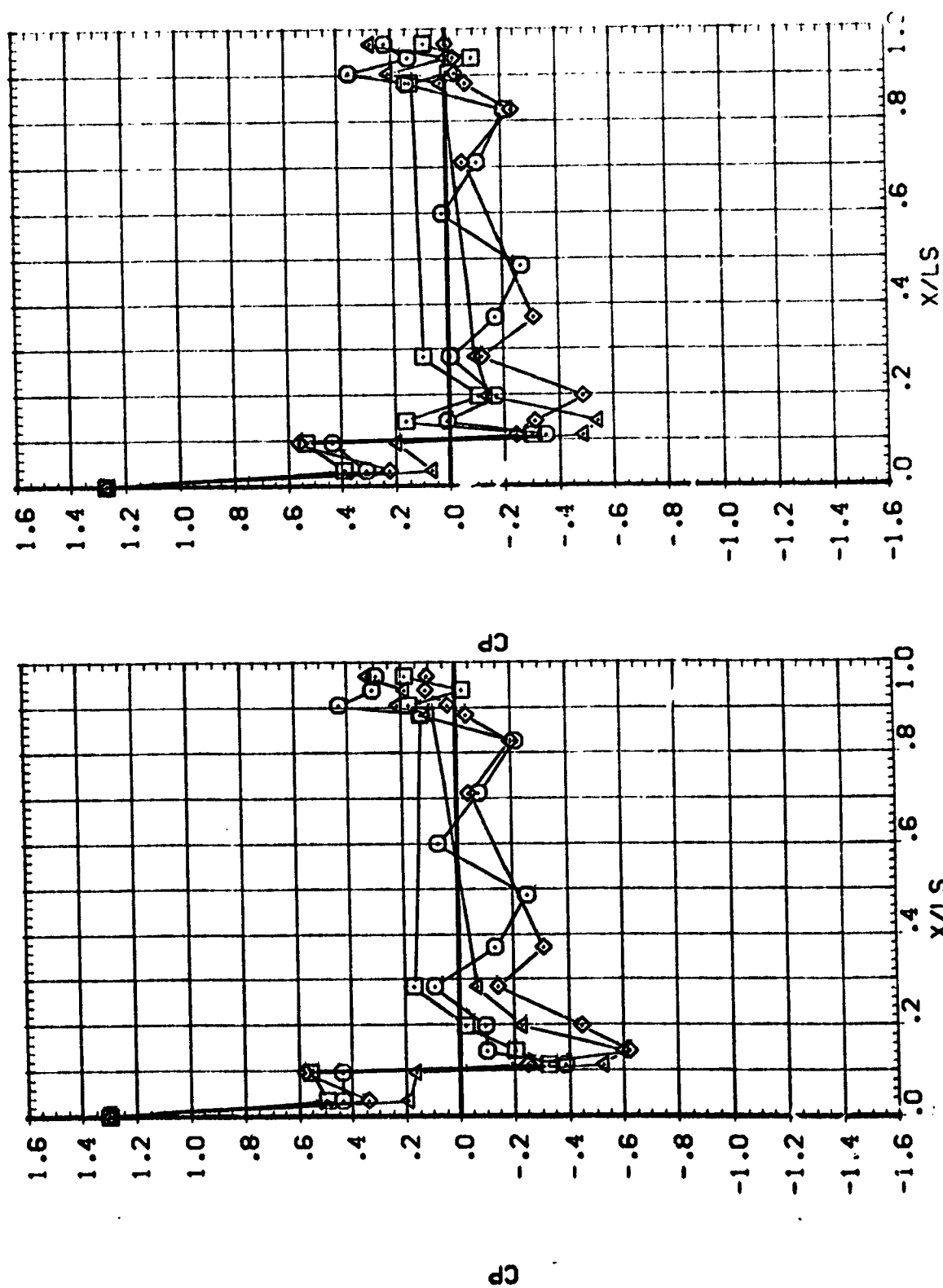
MACH
1.241

PARAMETRIC VALUES

ALPHAT
RJOER
RJOFLR

ORBITAL
ELEVON

.500
.000



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES



AMES 11-707 1A9 02A + S3 + T9 SRM BOOSTER

(RBMS07)

SYMBOL
□
◇
△

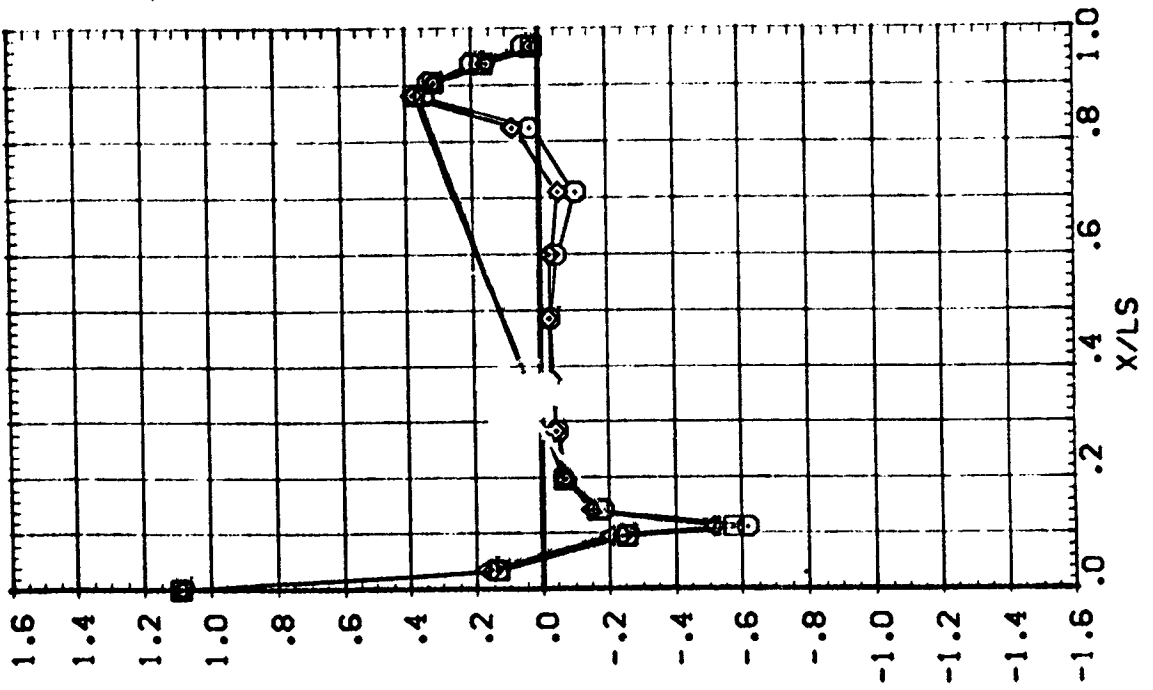
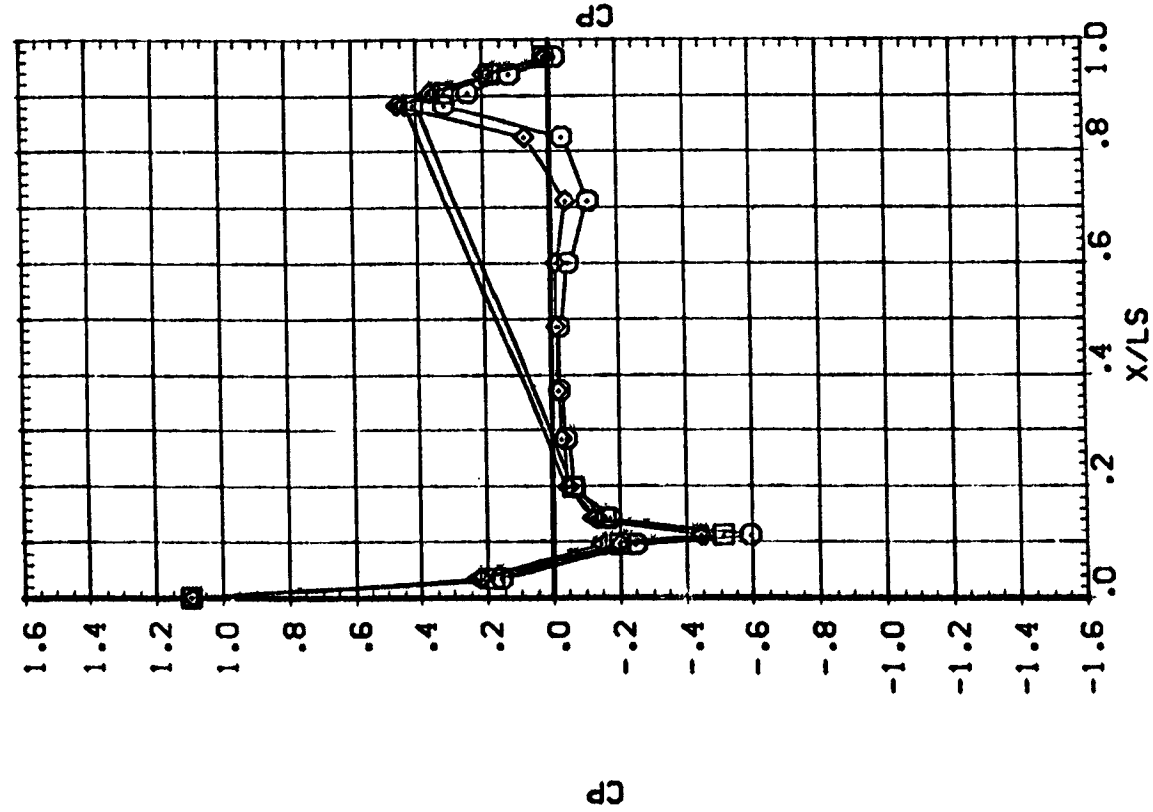
PHI .000
45.000
90.000
135.000

BETAT -4.05C
.020

MACH .598

PARAMETRIC VALUES
ALPHAT .000
RUDDER .000
RUDFLR .000

ORBINC .500
ELEVON .000



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

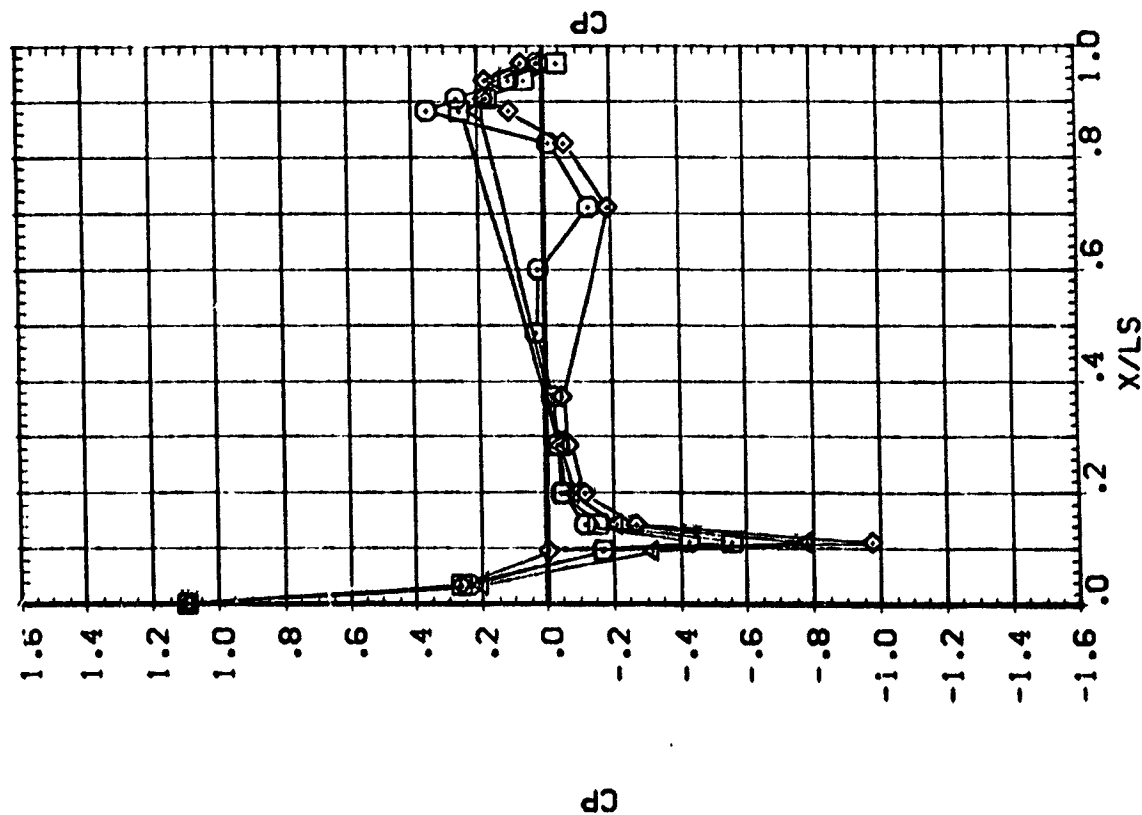
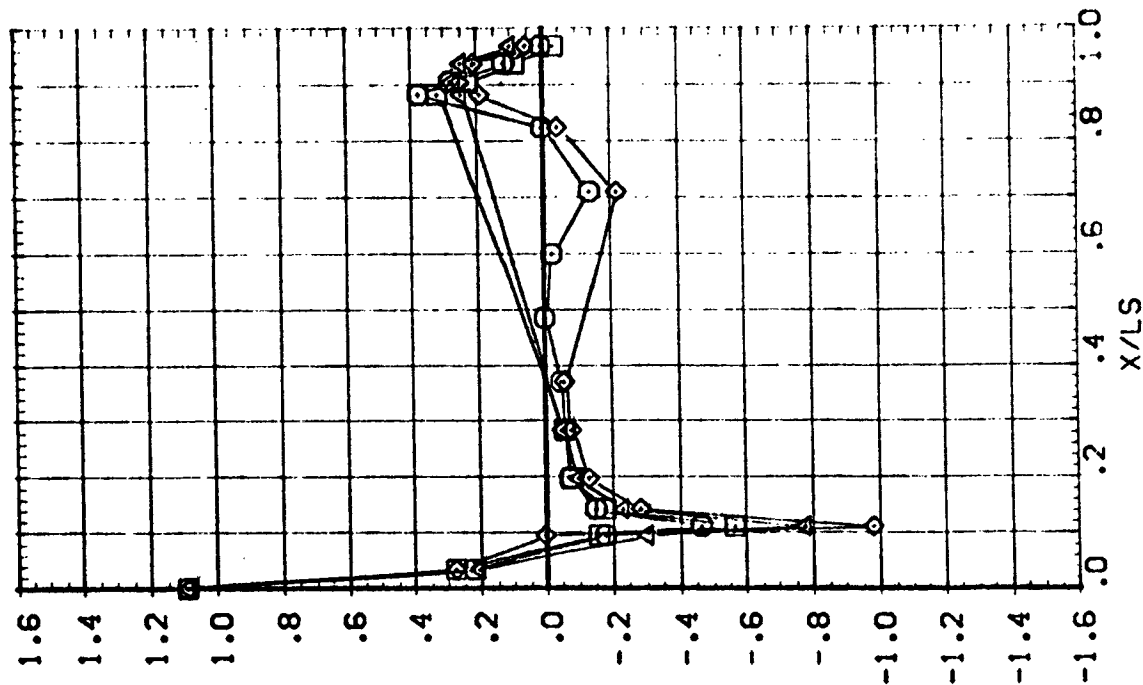


(RBMS07)

AMES 11-707 1A9 02A + S3 + T9 SRM BOOSTER

PARAMETRIC VALUES
ALPHA 1.000
RUDER 1.000
RUDER 1.000
ORBIT 1.000
ELEV 1.000

PHI 180.000
BETAT -4.050
MACH .598
SYMBOL 180.000
225.000
270.000
315.000



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES



AMES 11-707 1A9 02A + S3 + T9 SRM BOOSTER

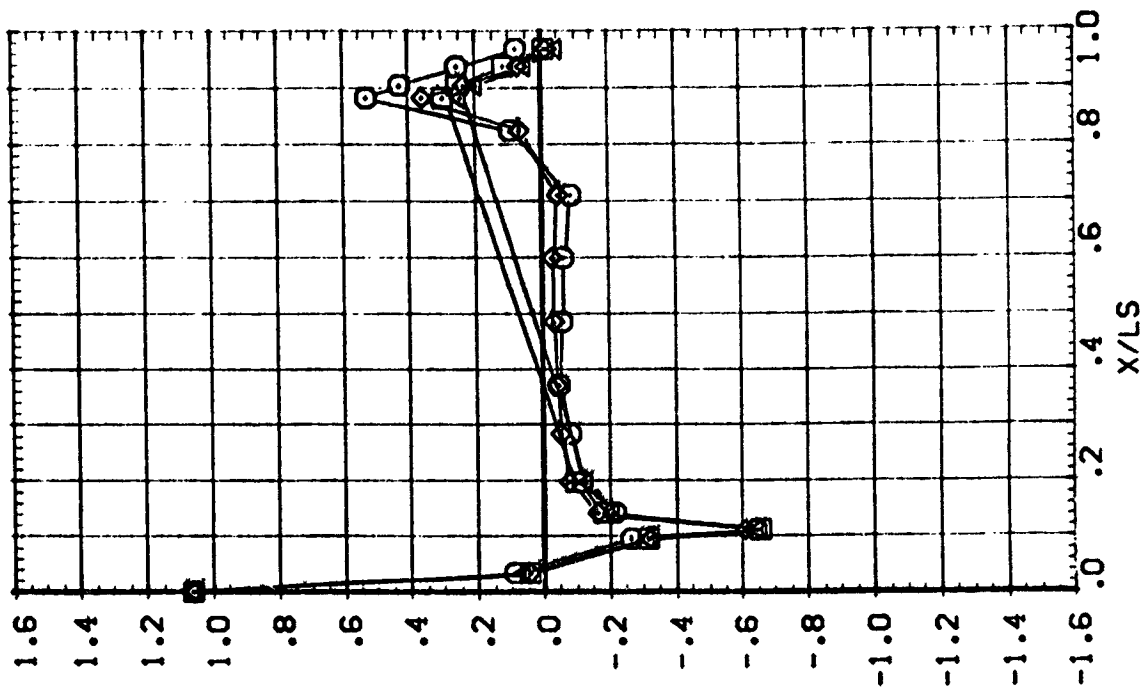
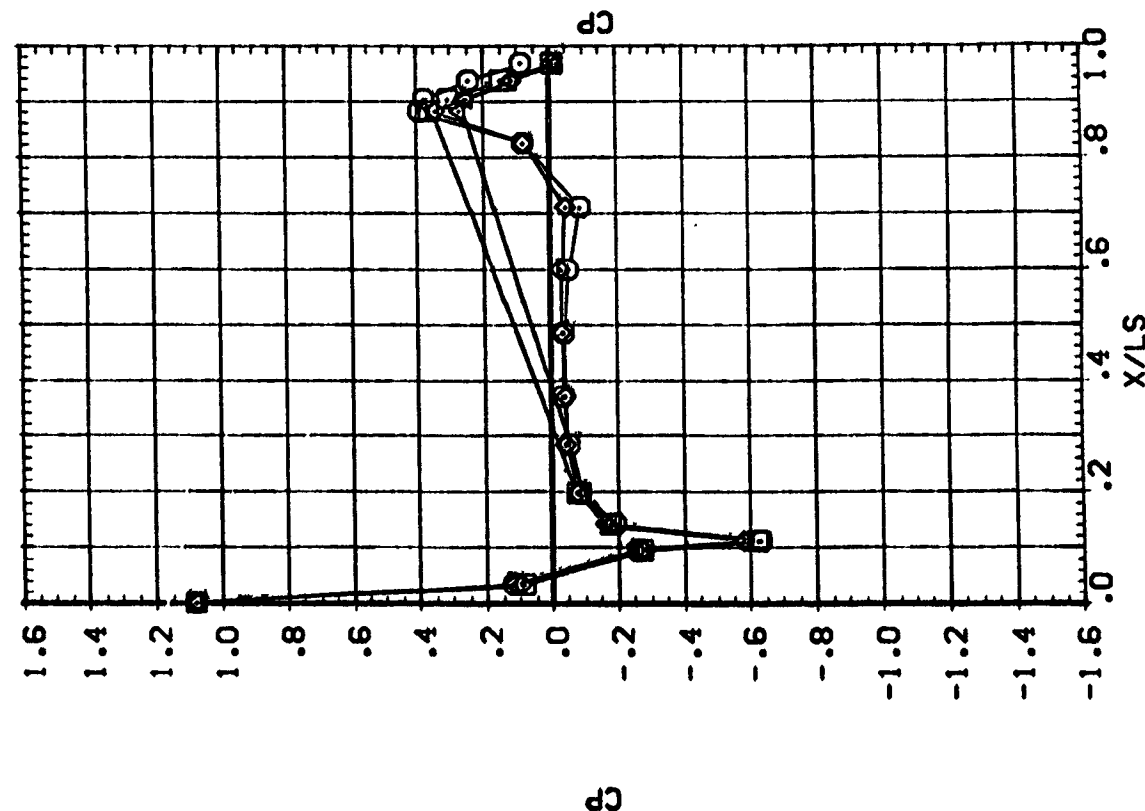
(RBMS07)

SYMBOL
○ □ ◇ △

PHI
.000
45.000
90.000
135.000

BETA1 MACH
4.080 .599
8.140

PARAMETRIC VALUES
ALPHAT .000 DRBINC .500
RUDER .000 ELEVON .000
RUOFLR .000



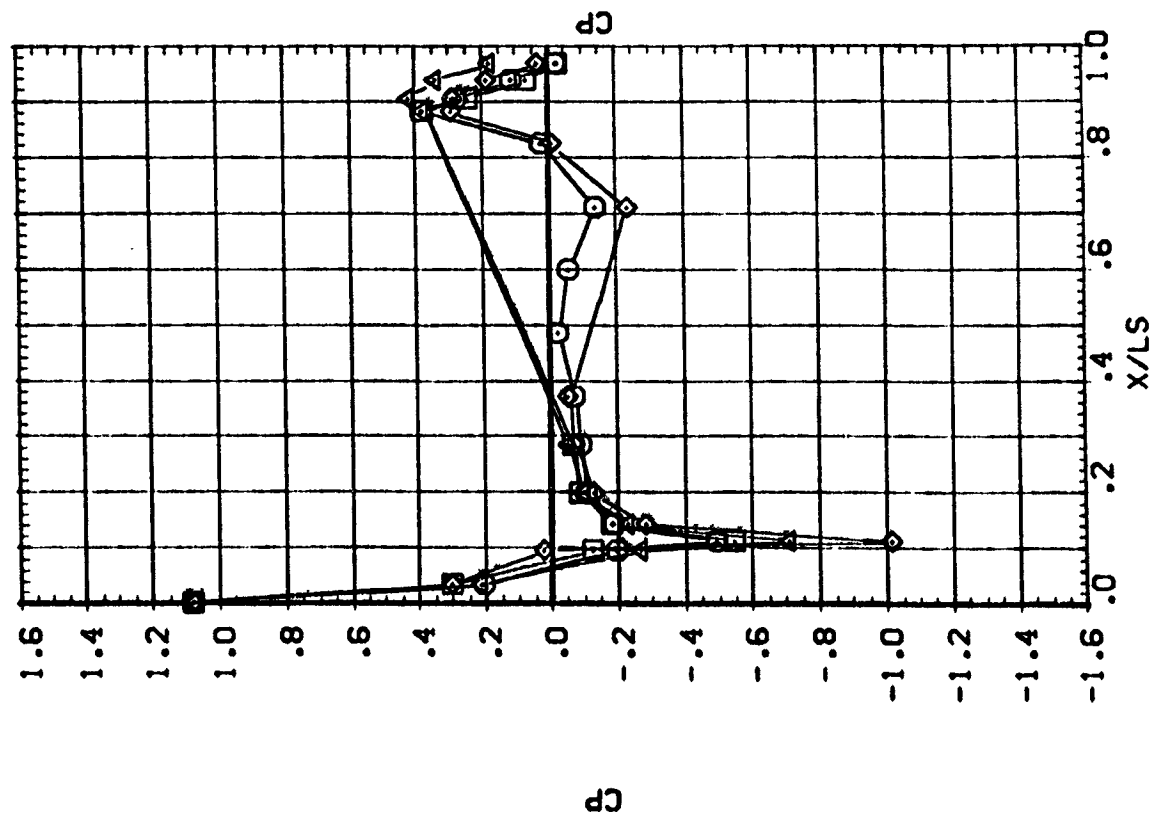
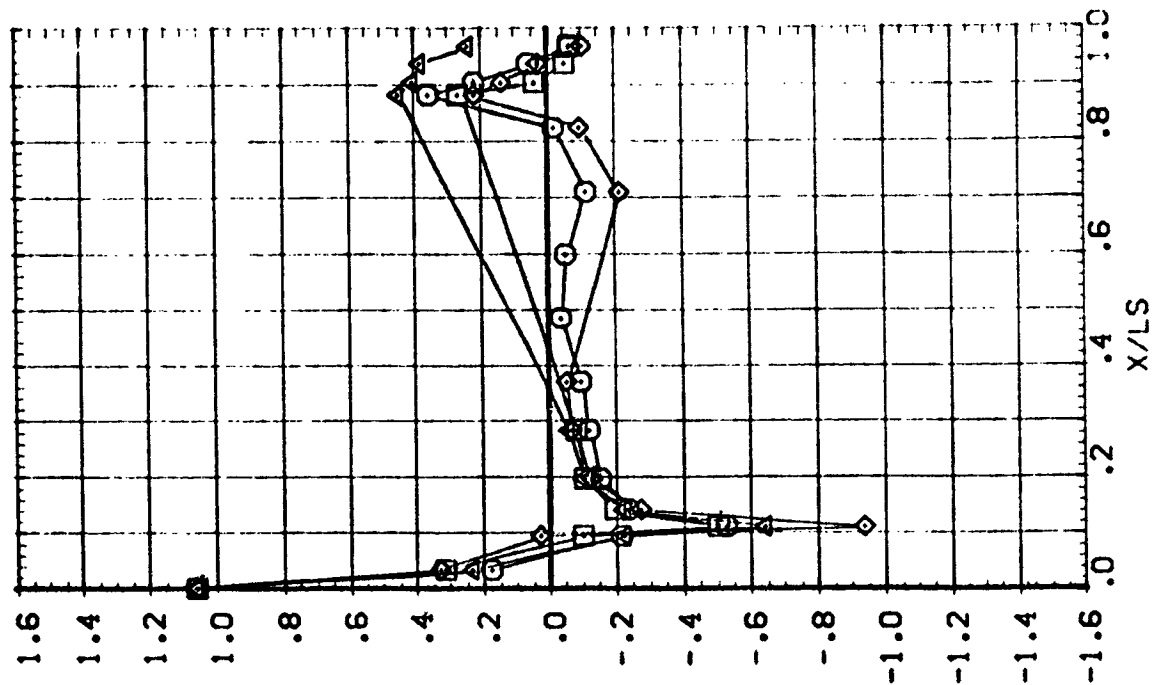
LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

(RBMS07)

AMES 11-707 1A9 02A + S3 + T9 SRM BOOSTER

PARAMETRIC VALUES
ALPHAT .000 ORBITC .500
RUDDER .000 ELEVON .000
RJOFLR .000

SYMBOL P41 BETAT MACH
○ 180.000 4.080 .599
□ 225.000 8.140
◇ 270.000
△ 315.000



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

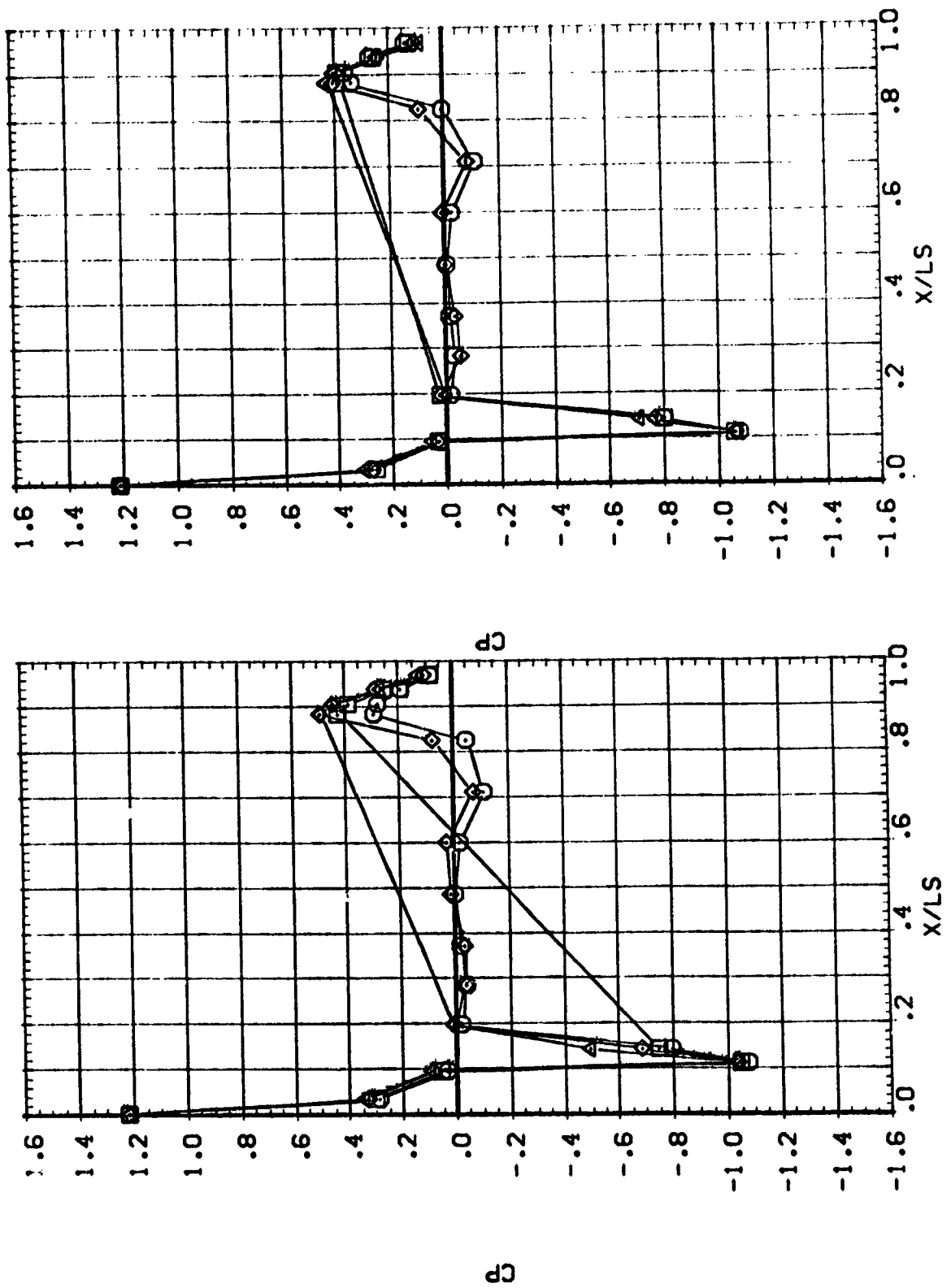


AMES 11-707 1A9 02A + S3 + T9 SRM BOOSTER

(RBMS07)

PHI	BETAT	MACH	ALPHAT	ORBITC
.000	-4.080	.899	.000	.000
45.000	.020		.000	.000
90.000			.000	.000
135.000				

PARAMETRIC VALUES



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES



AMES 11-707 1A9 02A + S3 + T9 SRM BOOSTER

(RBMS07)

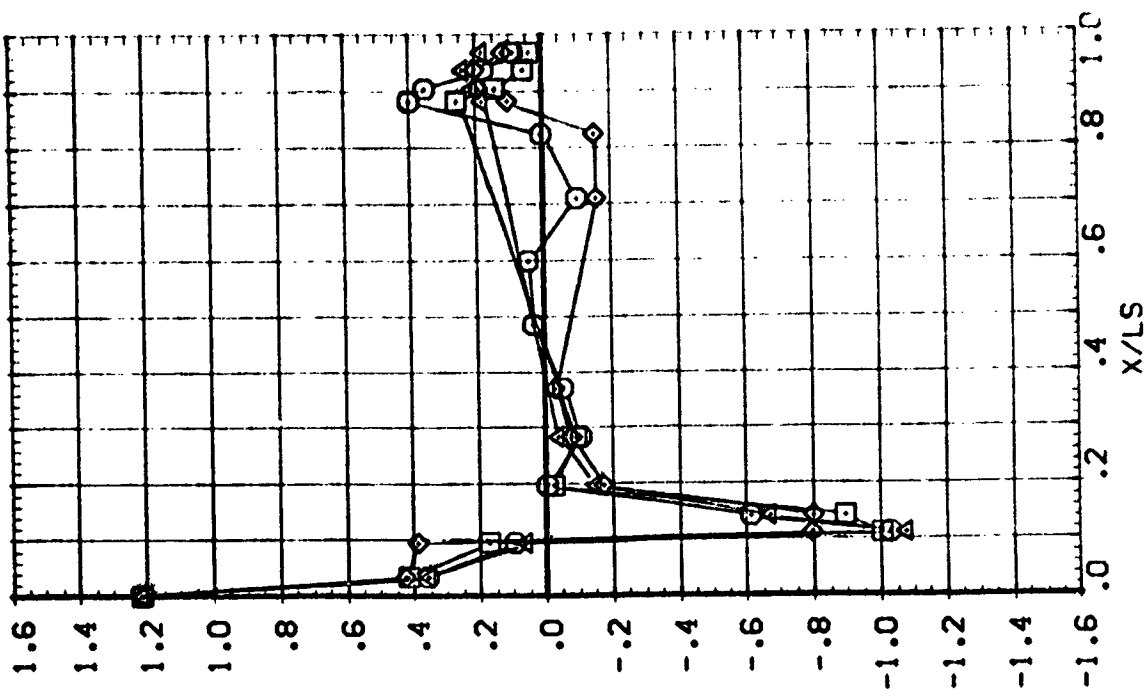
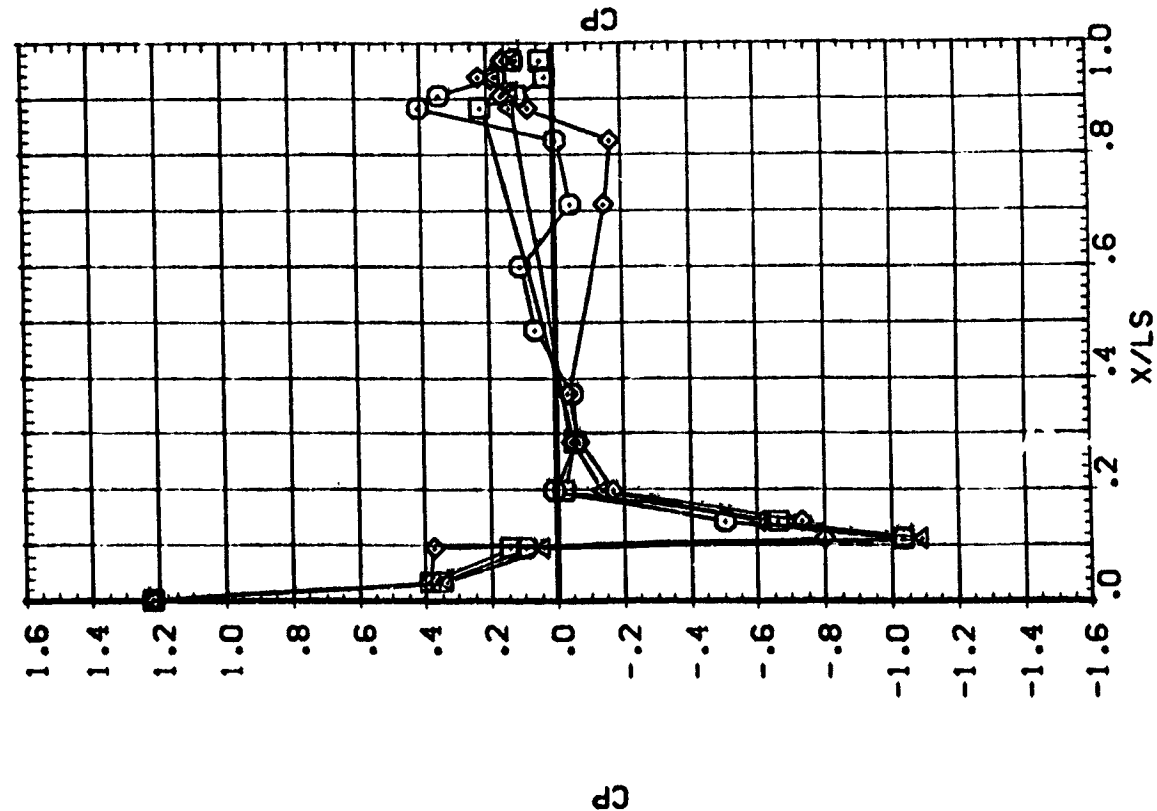
SYMBOL
 180.000
 225.000
 270.000
 315.000

PHI
 180.000
 225.000
 270.000
 315.000

BETAT
 -4.080
 .020

MACH
 .899

PARAMETRIC VALUES
 ALPHAT
 RLOOR
 RLOFLR
 .000
 .000
 .000
 .500
 .000
 .000



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES



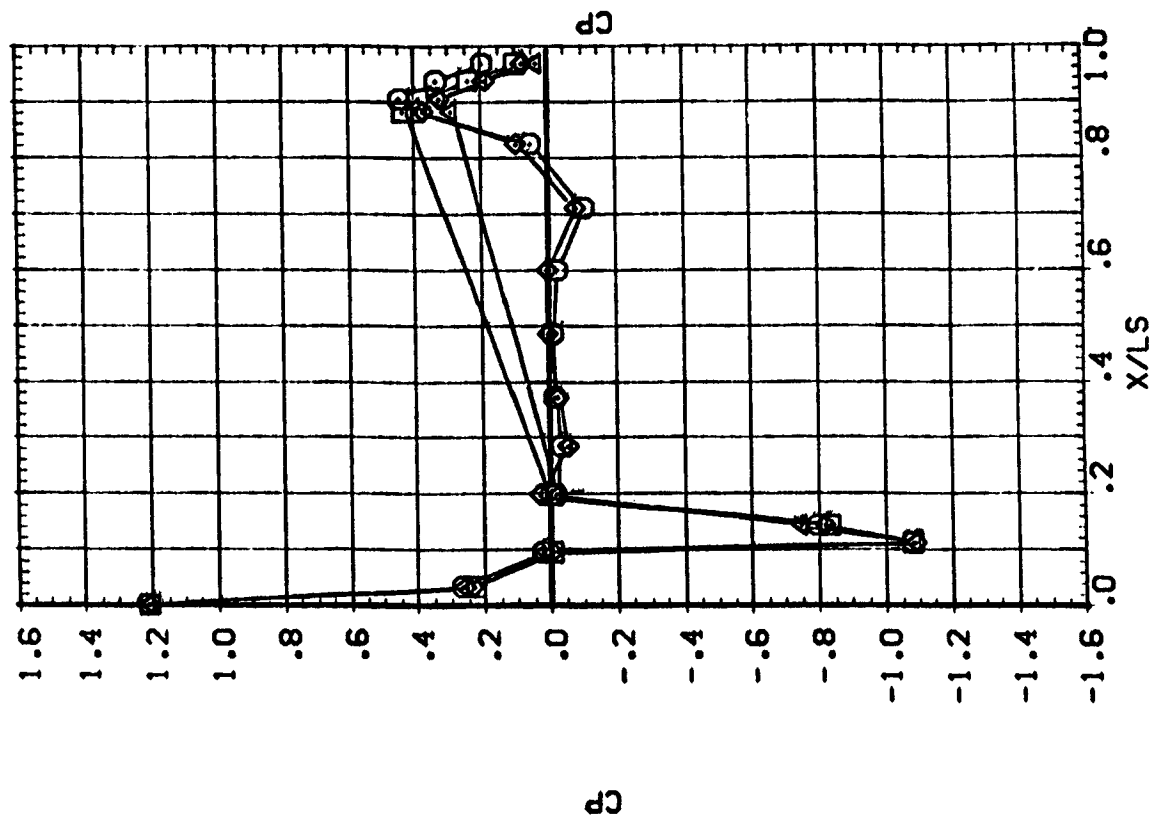
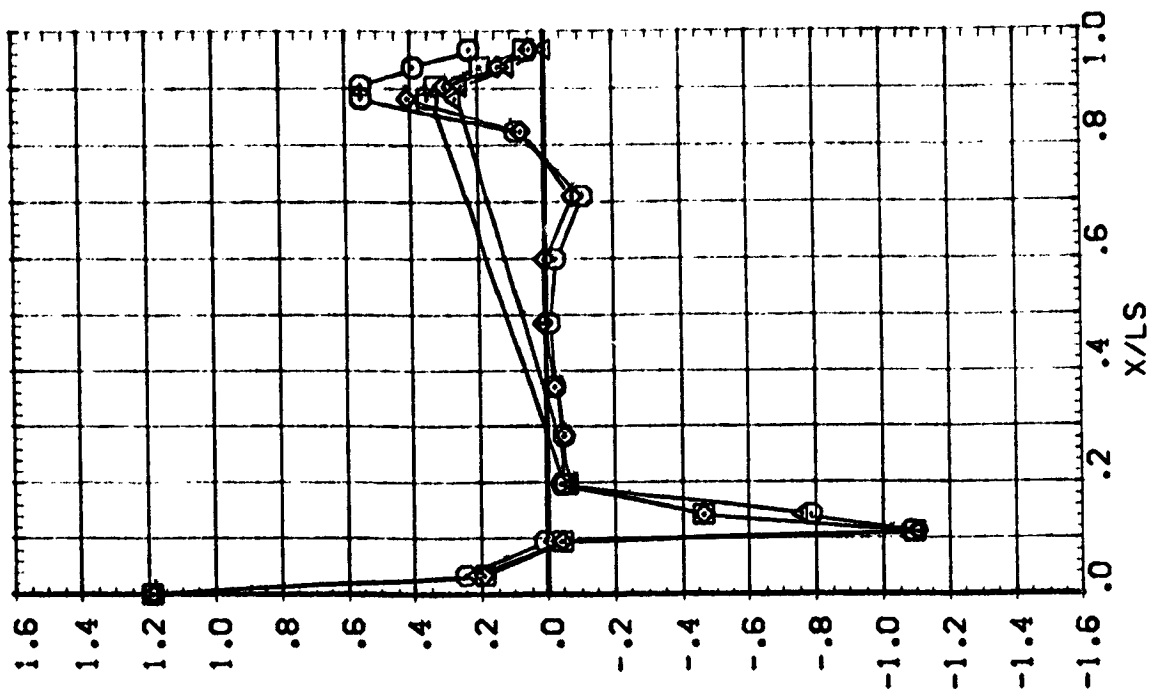
AMES 11-707 1A9 02A + S3 + T9 SRM BOOSTER

(RBMS07)

PARAMETRIC VALUES
 ALPHAT .000 ORBINC .500
 RUDDER .000 ELEVEN .000
 RUJFLR .000

PHI .000 MACH .906
 45.000
 90.000
 135.000

SYMBOL
 ○ □ ◇ △



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES



AMES 11-707 1A9 02A + S3 + T9 SRM BOOSTER

(RBMS07)

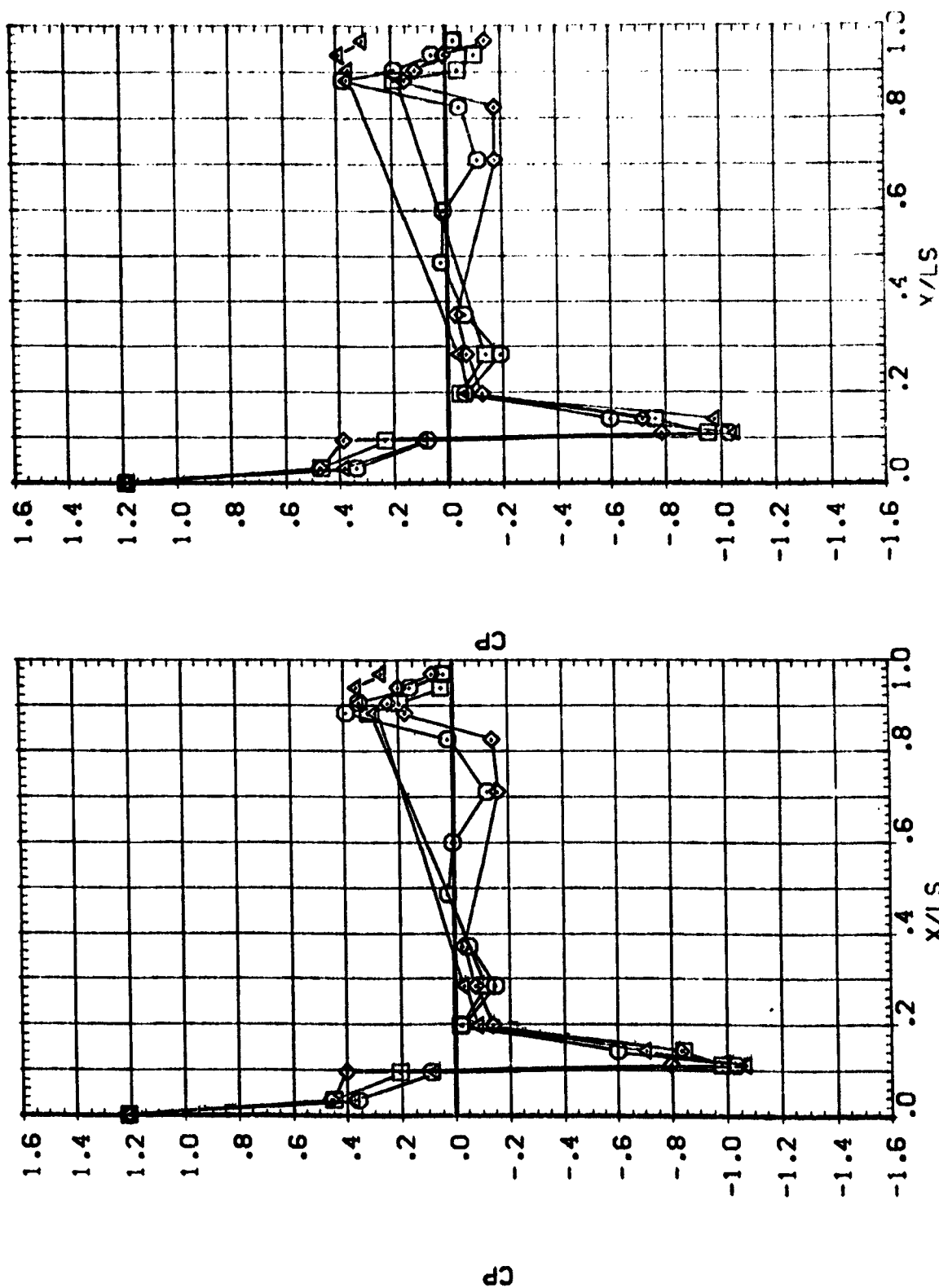
SYMBOL
○
□
◇
△

PHI
180.000
225.000
270.000
315.000

BETAT
4.120
8.220

MACH
.906

PARAMETRIC VALUES
ALPHA-T
RUDDER
RUDFLR
.000
.000
.000
ORBIT/NC
ELEVON
.500
.000



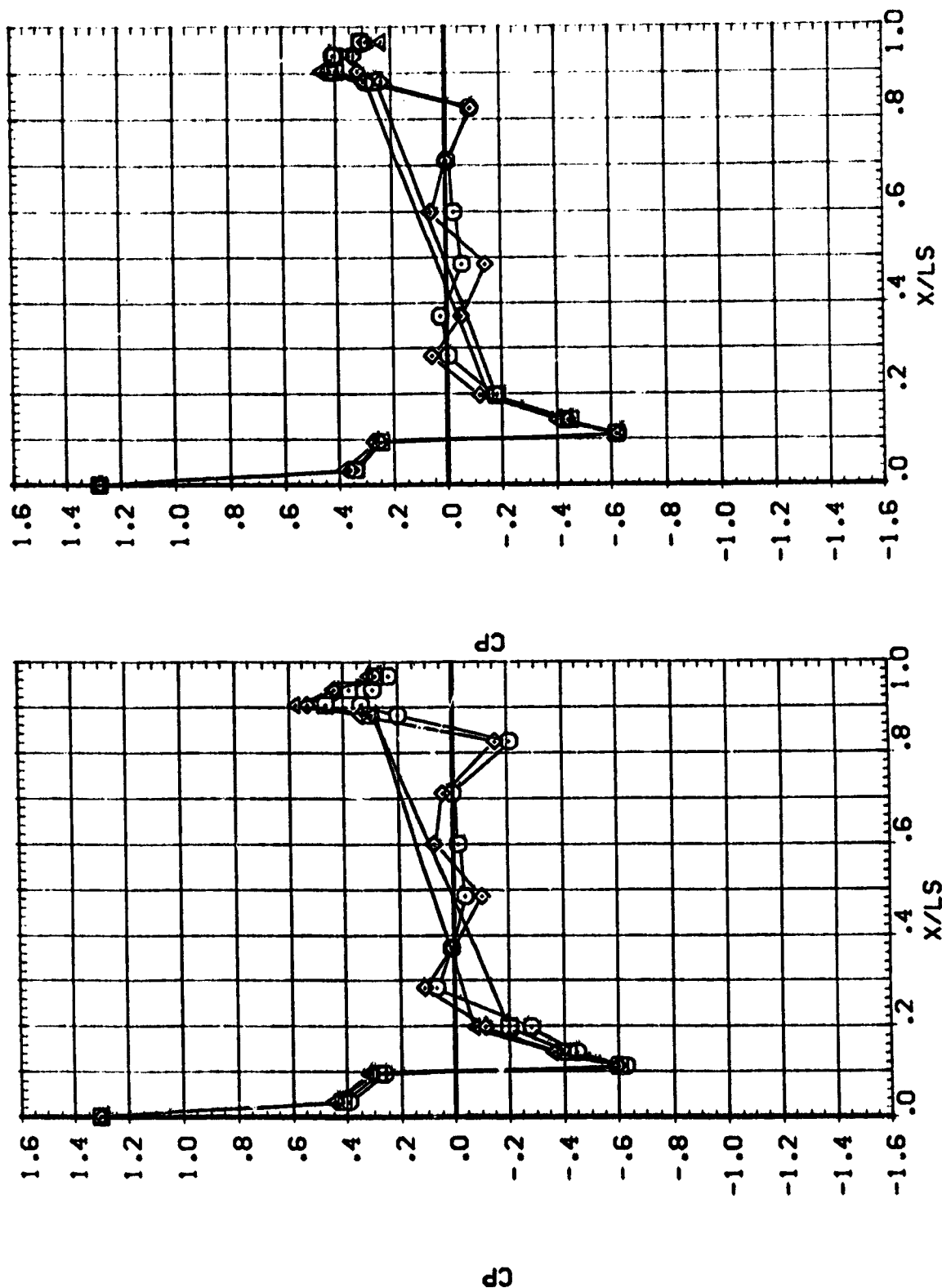
LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES



AMES 11-707 1A9 02A + S3 + T9 SRM BOOSTER

(RBMSC7)

SYMBOL	PHI	BETAT	MACH	PARAMETRIC VALUES			
				ALPHAT	ORBINC	ELEVON	
○	.000	-4.080	1.098	.000	.000	.500	
□	45.000	2.070		.000	.000	.000	
◇	90.000			.000	.000		
△	135.000						



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

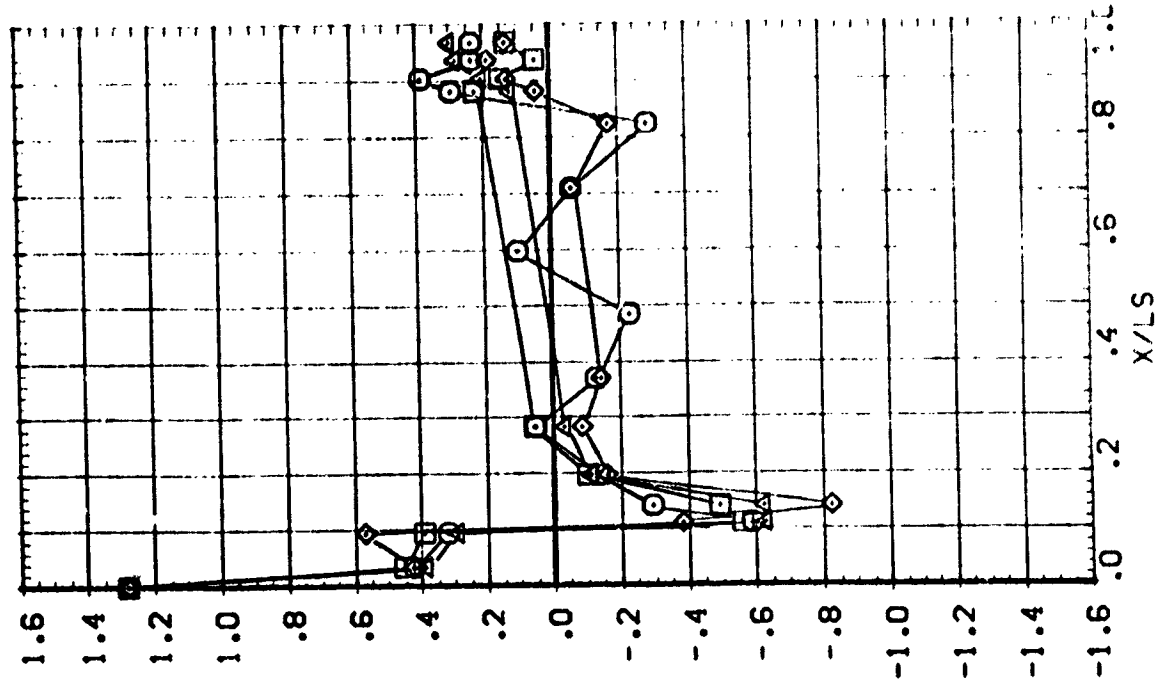
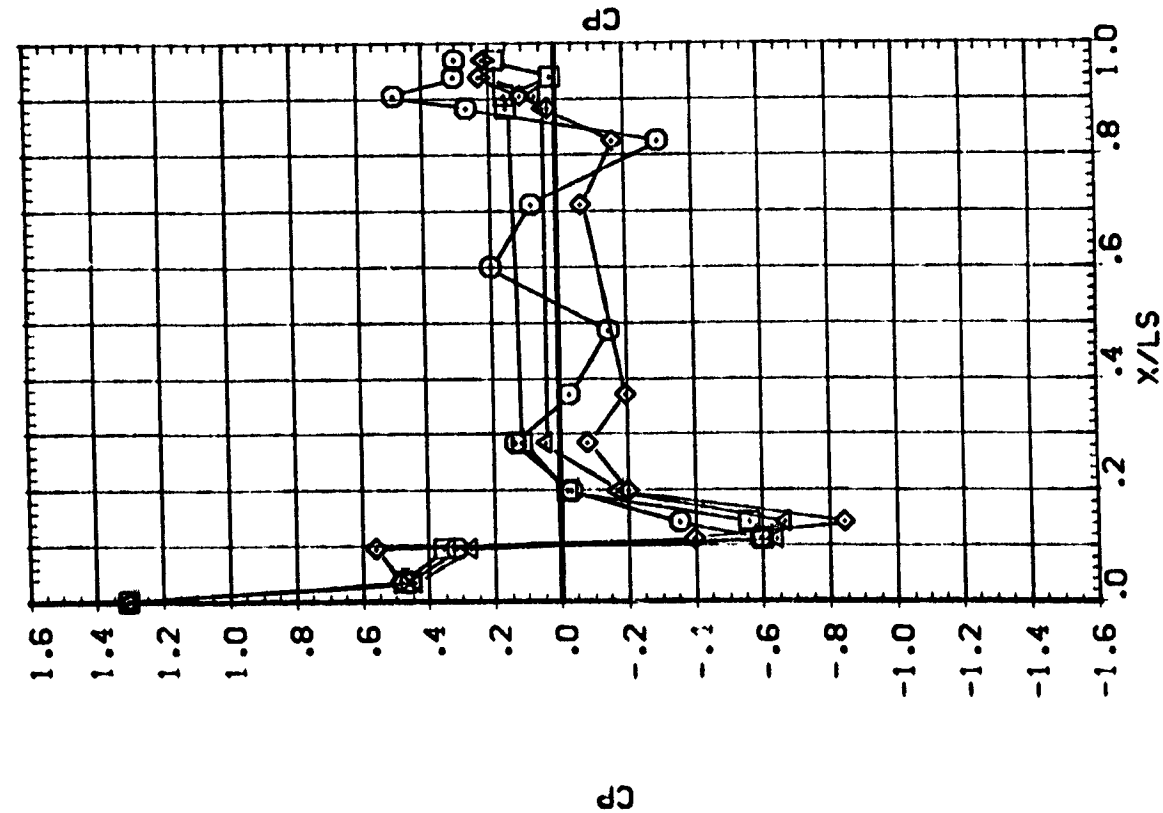


AMES 11-707 1A9 02A + S3 + T9 SRM BOOSTER

(RBMS07)

PH: 180.000
 225.000
 270.000
 315.000
 BETAT -4.080
 2.070
 MACH 1.098

ALPHAT
 RUDDER
 RUOFLR
 .000
 .000
 .000
 .000
 .000
 .000

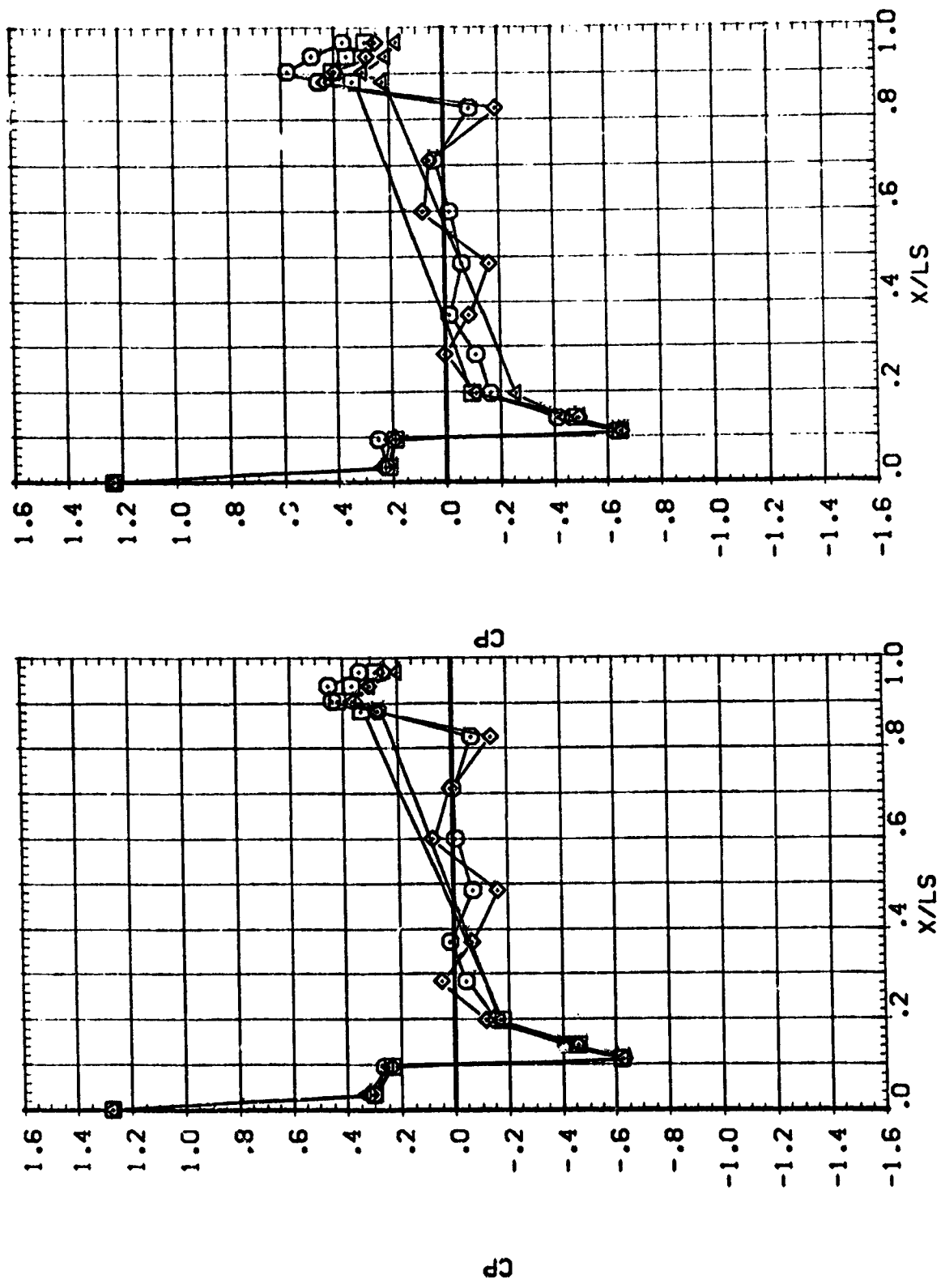


LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES



AMES 11-707 1A9 02A + S3 + T9 SRM BOOSTER (RBMS07)

SYMB	PHI	PCTAT	MACH	PARAMETRIC VALUES
○	.000	4.140	1.100	ALPHAT .000 ORBINC .500
□	45.000	8.250		RUDDER .000 ELEVON .000
◇	90.000			RUDFLR .000
△	135.000			



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES



AMES 11-707 1A9 02A + S3 + T9 SRM BOOSTER (RBMS07)

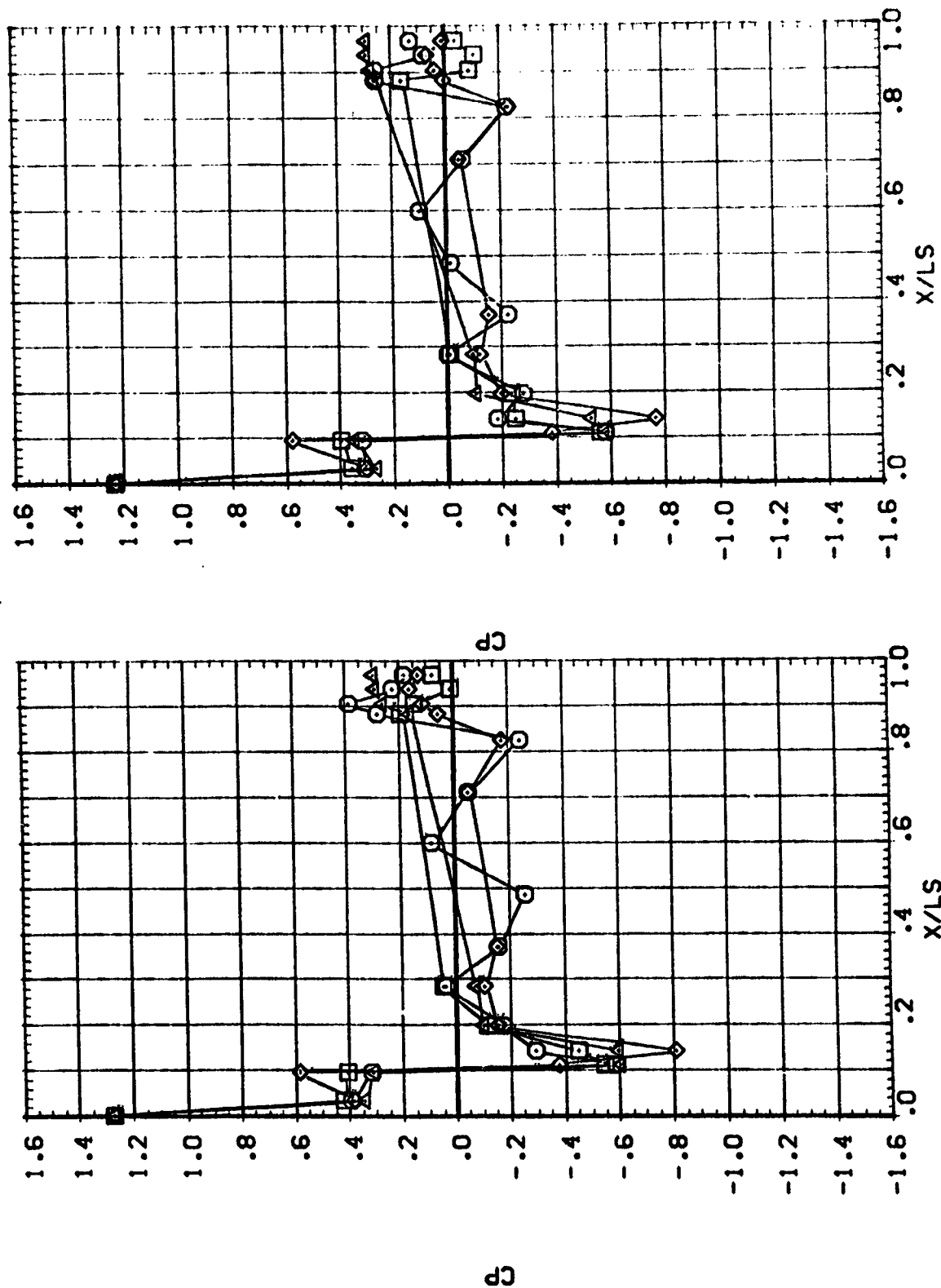
SYMBOL
○ □ ◇ △

PHI
180.000
225.000
270.000
315.000

BETAT
4.140
8.250

MACH
1.100

PARAMETRIC VALUES
ALPHAAT .000 ORBINC .000
RUDDER .000 ELEVON .000
RUDDFLR .000



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES



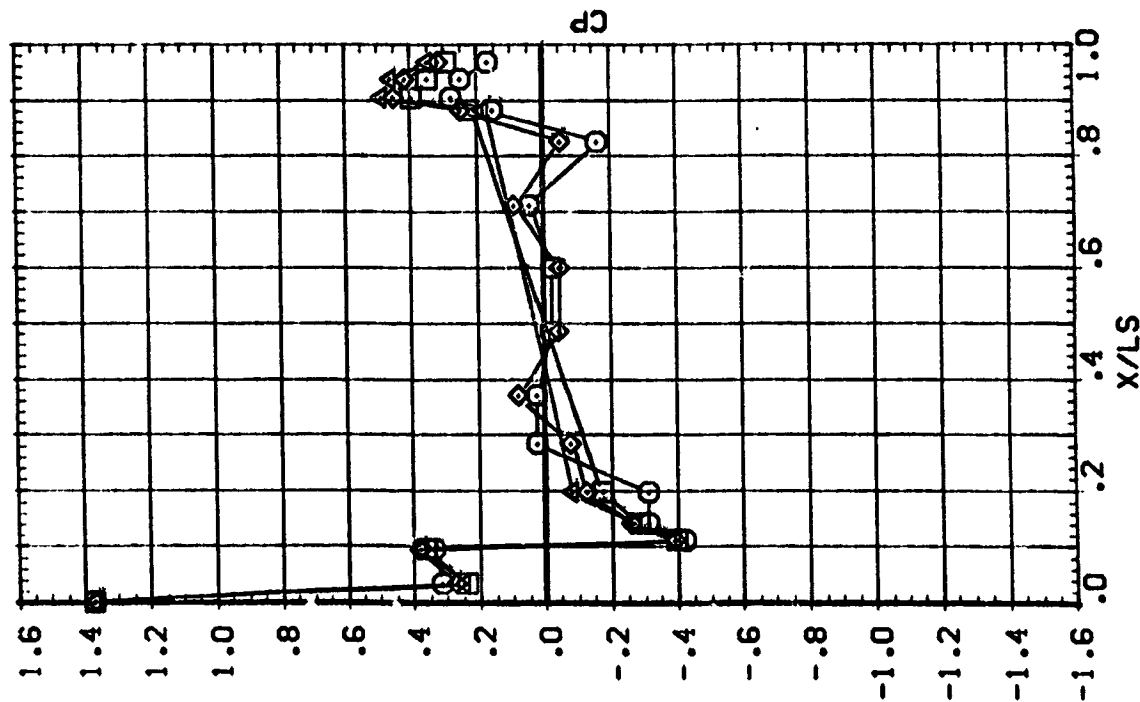
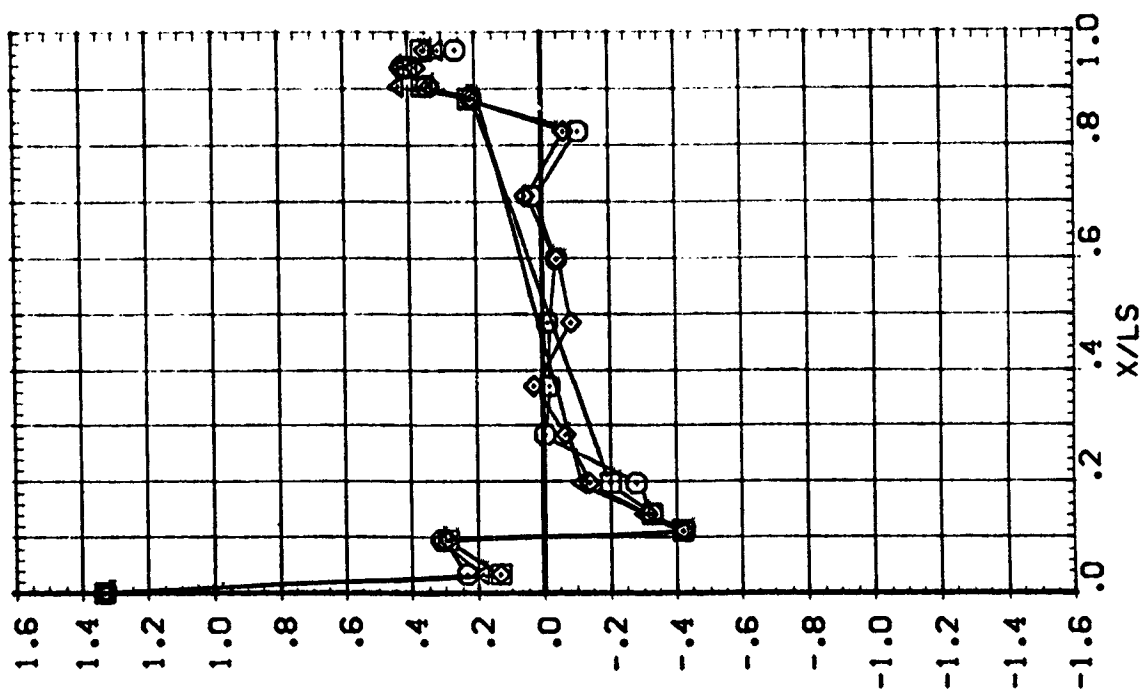
AMEA

(RBMS07)

AMES 11-707 1A9 02A + S3 + T9 SRM BOOSTER

PARAMETRIC VALUES
ALPHAT .000 ORBINC .500
RUDDER .000 ELEVON .000
RJOFLR .000

SYMBOL PH1 BETAT MACH
00100 .000 -4.080 1.248
01000 45.000 2.080
02000 90.000
03000 135.000



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES



AMES 11-707 1A9 02A + S3 + T9 SRM BOOSTER

(RBMS07)

SYMBOL

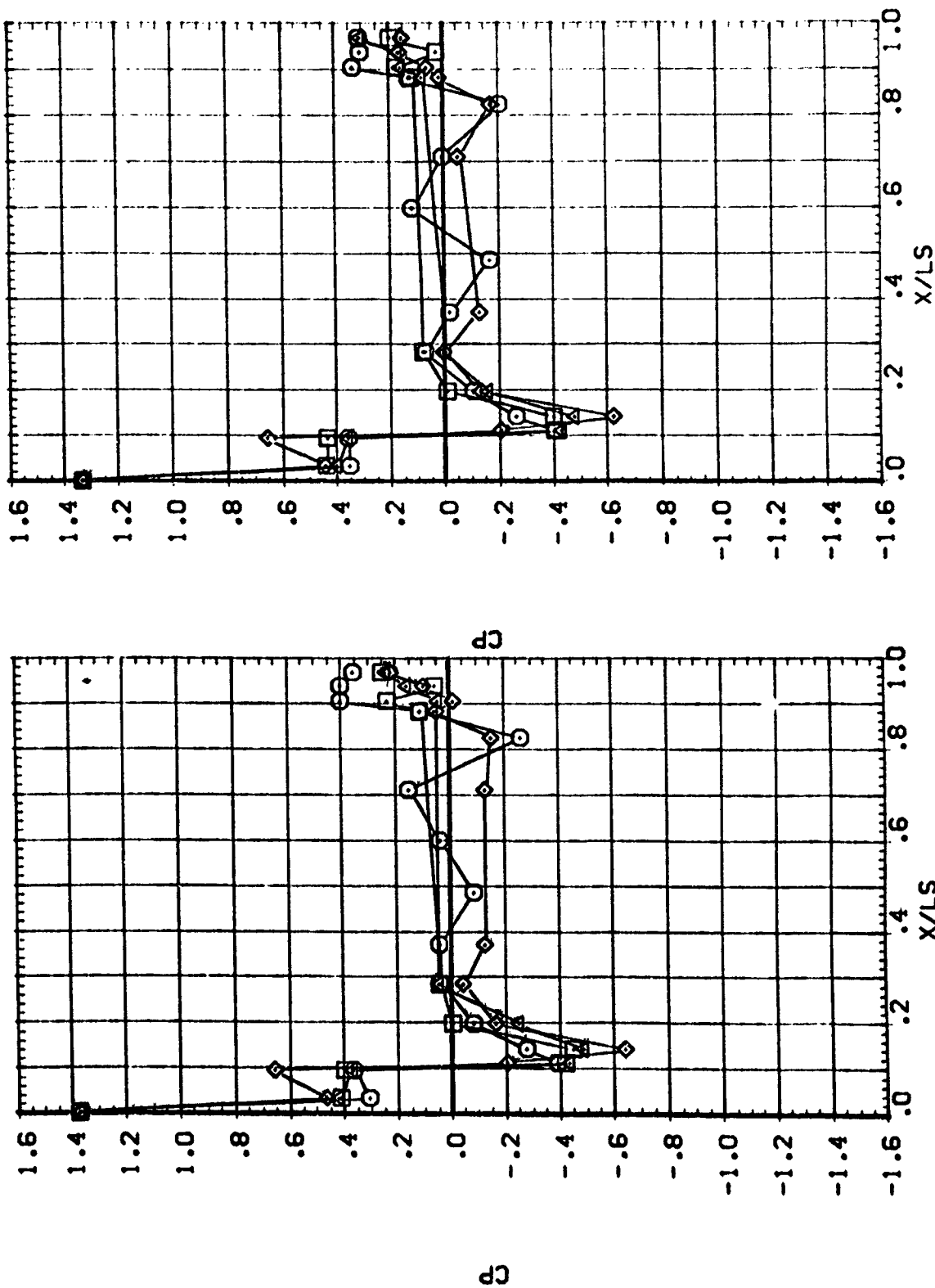
PHI
180.000
225.000
270.000
315.000

BETA
-4.080
2.060

MACH
1.248

PARAMETRIC VALUES

ALPHAT .000 ORBINC .000
RUDDER .000 ELEVON .000
RUDDFLR .000



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES



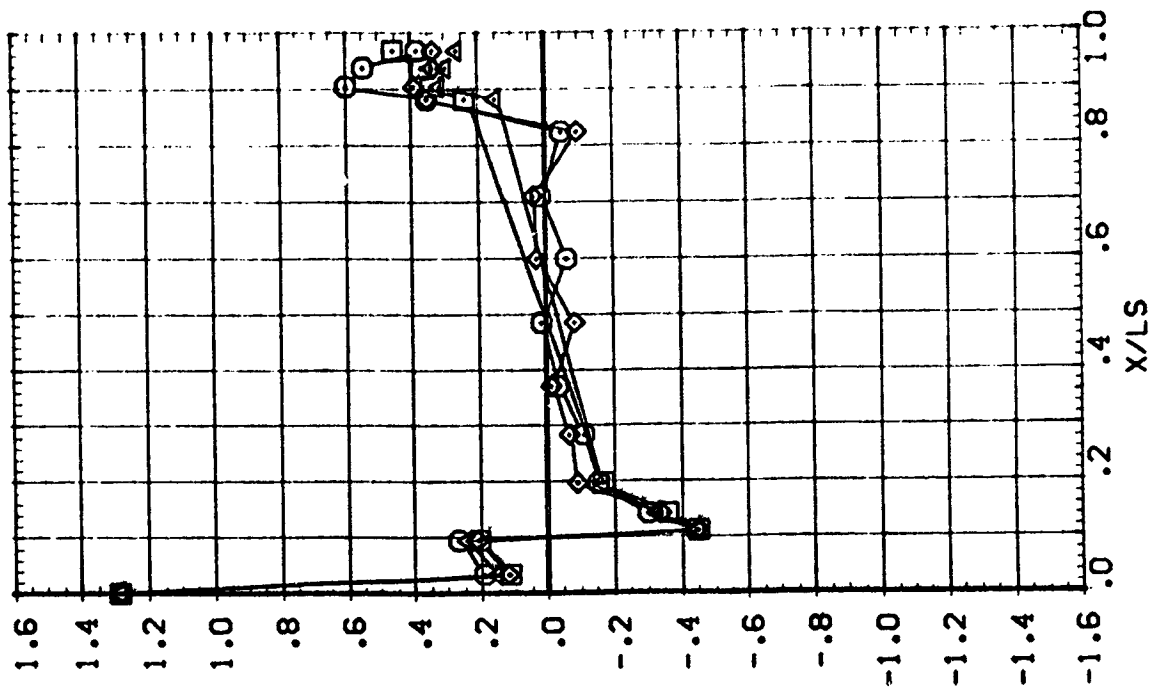
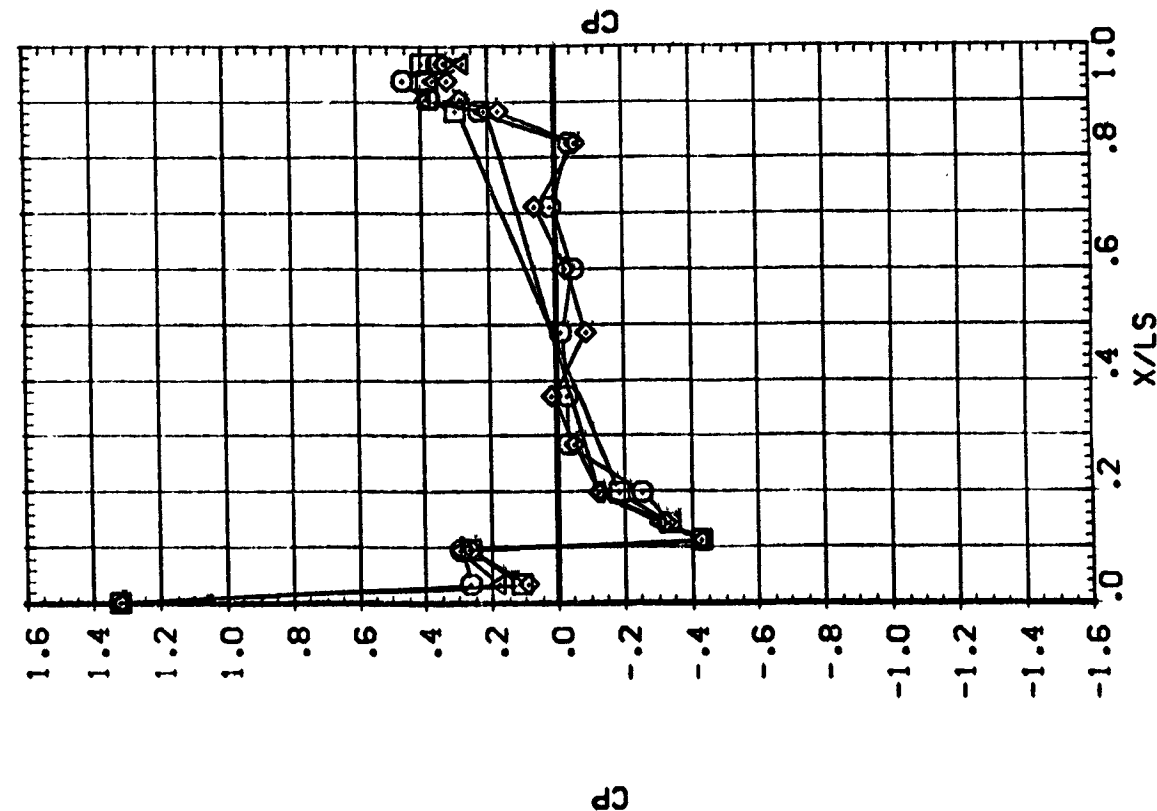
AMES 11-707 IA9 02A + S3 + T9 SRM BOOSTER

(RBMS07)

SYMBOL
 ○ □ ◇ △

PHI BETAT MACH
 .000 4.100 1.245
 45.000 8.190
 90.000
 135.000

PARAMETRIC VALUES
 .000 ORBINC .500
 .000 ELEVON .000
 .000
 ALPHAT
 RUDDER
 RUDDLR



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES



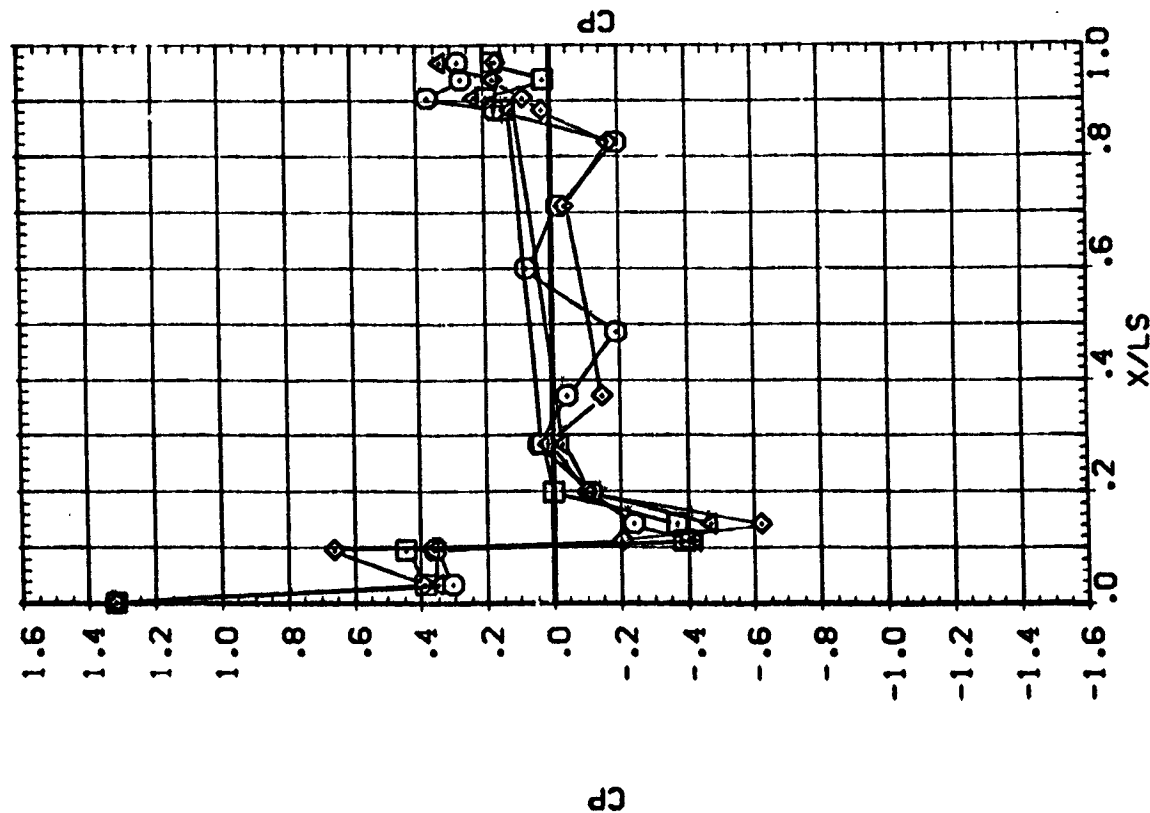
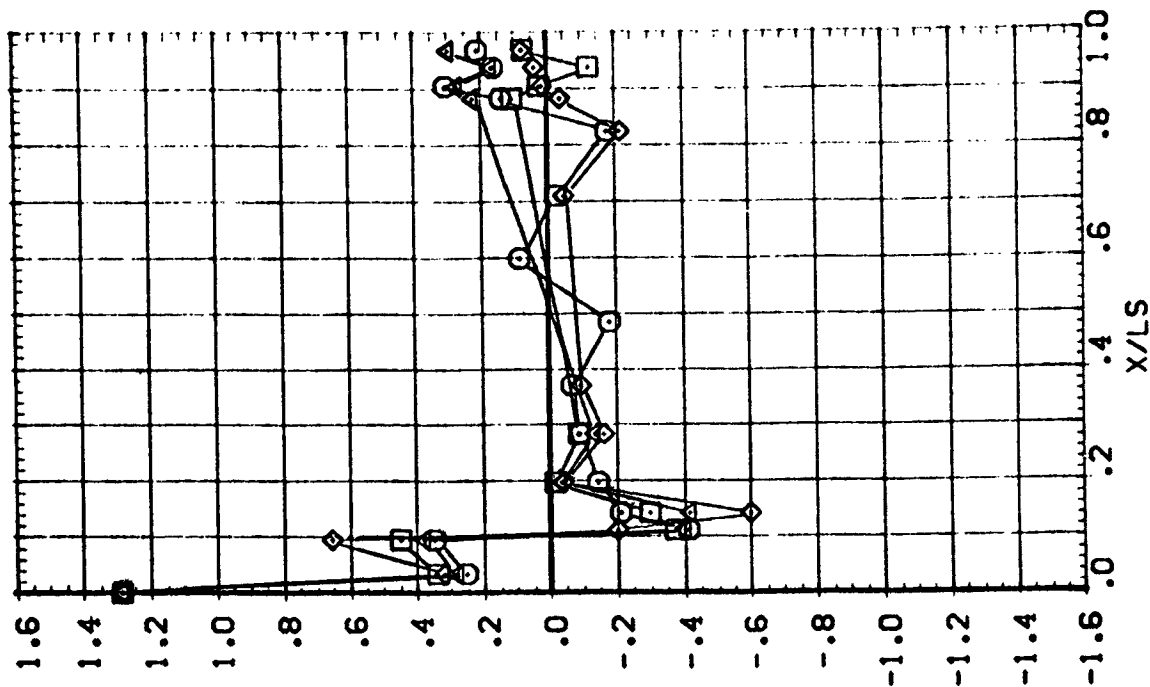
(RBMS07)

AMES 11-707 1A9 02A + S3 + T9 SRM BOOSTER

PARAMETRIC VALUES
ALPHAT .000 ORBINC .500
RUDDER .000 ELEVON .000
RUDDLR .000

SYMBOL
180.000
225.000
270.000
315.000

BETAT MACH
4.100 1.245
8.190



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES



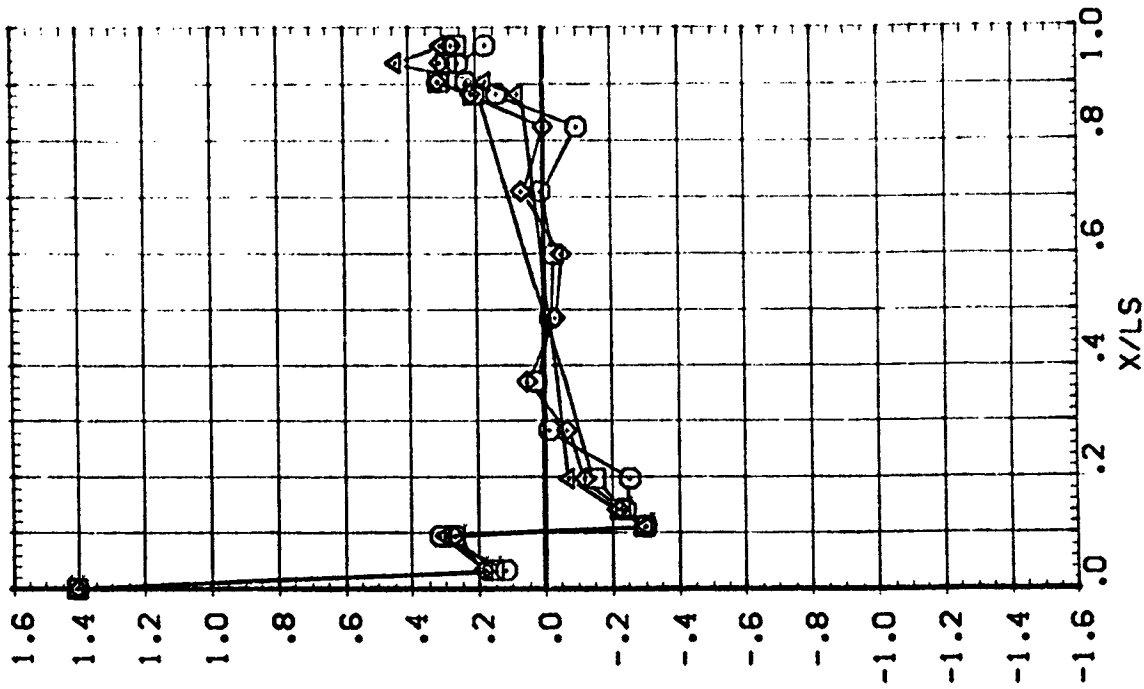
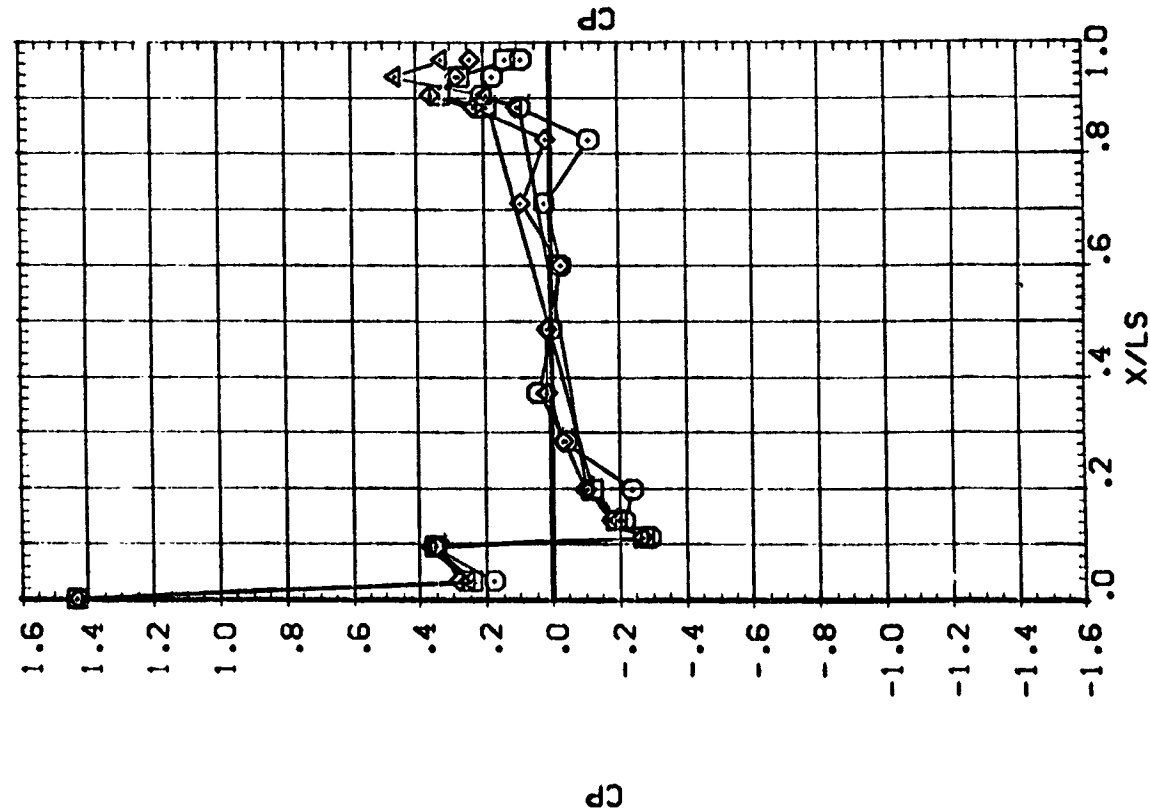
AMES 11-707 1A9 02A + S3 + T9 SRM BOOSTER

(RBMS07)

SYMBOL
O
□
◇
△

PHI BETAT MACH
.000 -4.080 1.397
45.000 .020
92.000
135.000

PARAMETRIC VALUES
ALPHAT .000 ORBINC .500
RJODER .000 ELEVON .000
RJOFIR .000



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES



AMES 11-707 1A9 02A + S3 + T9 SRM BOOSTER

(RBMS07)

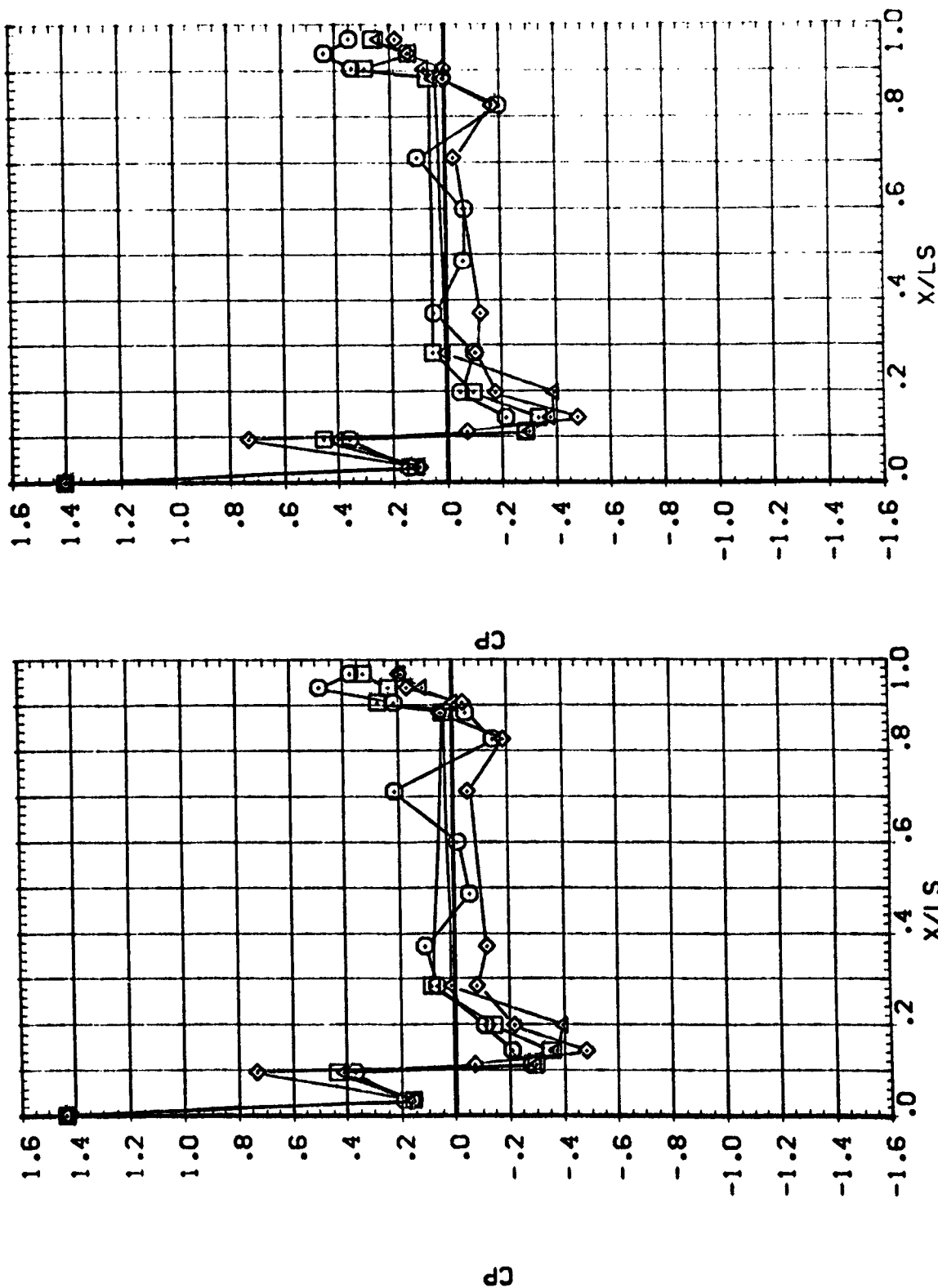
SYMBOL

PHI
180.000
225.000
270.000
315.000

BETAT
-4.080
.020

MACH
1.397

PARAMETRIC VALUES
ALPHAT .000 ORBINC .500
RUDDER .000 ELEVON .000
RUOFLR .000



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES



AMES 11-707 :A9 02A + S3 + T9 SRM BOOSTER

(R8MS07)

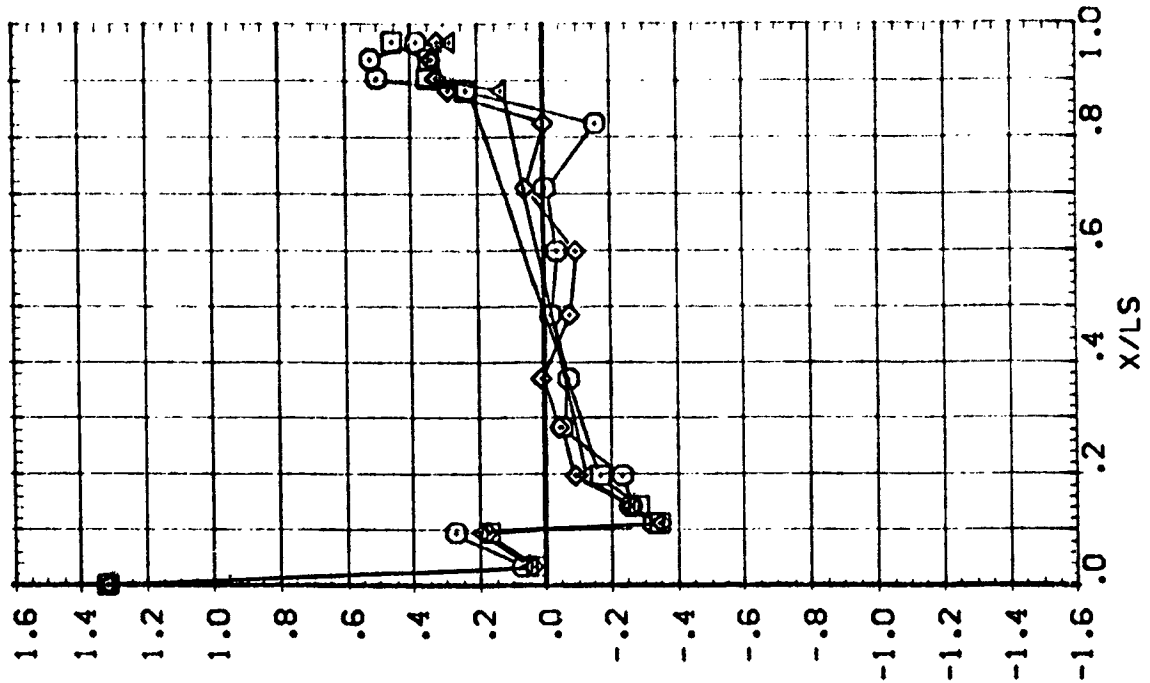
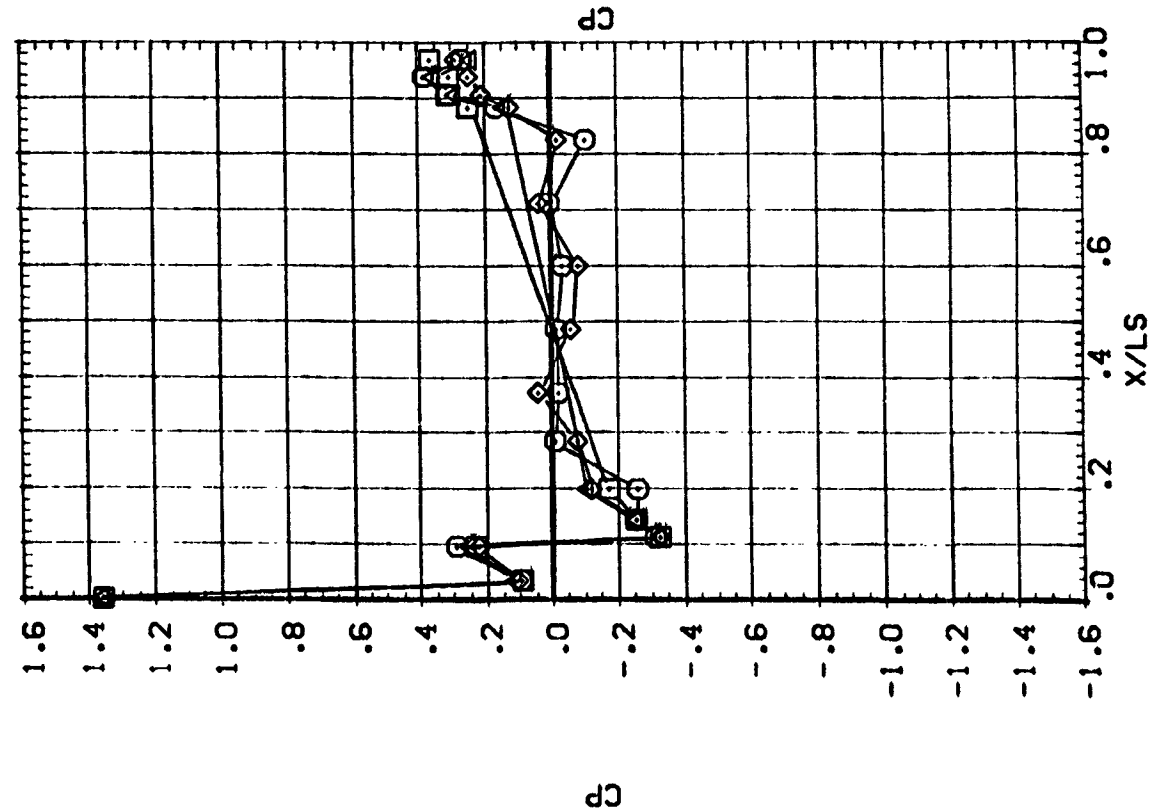
SYMBOL
○ □ ◇ △

PH: .000 4.110 8.210
45.000 90.000 135.000

BETAT 4.110 8.210

WACH 1.394

PARAMETRIC VALUES
ALPHAT .000 CRBINC .500
RJOER .000 ELEVON .000
RJOFLR .000



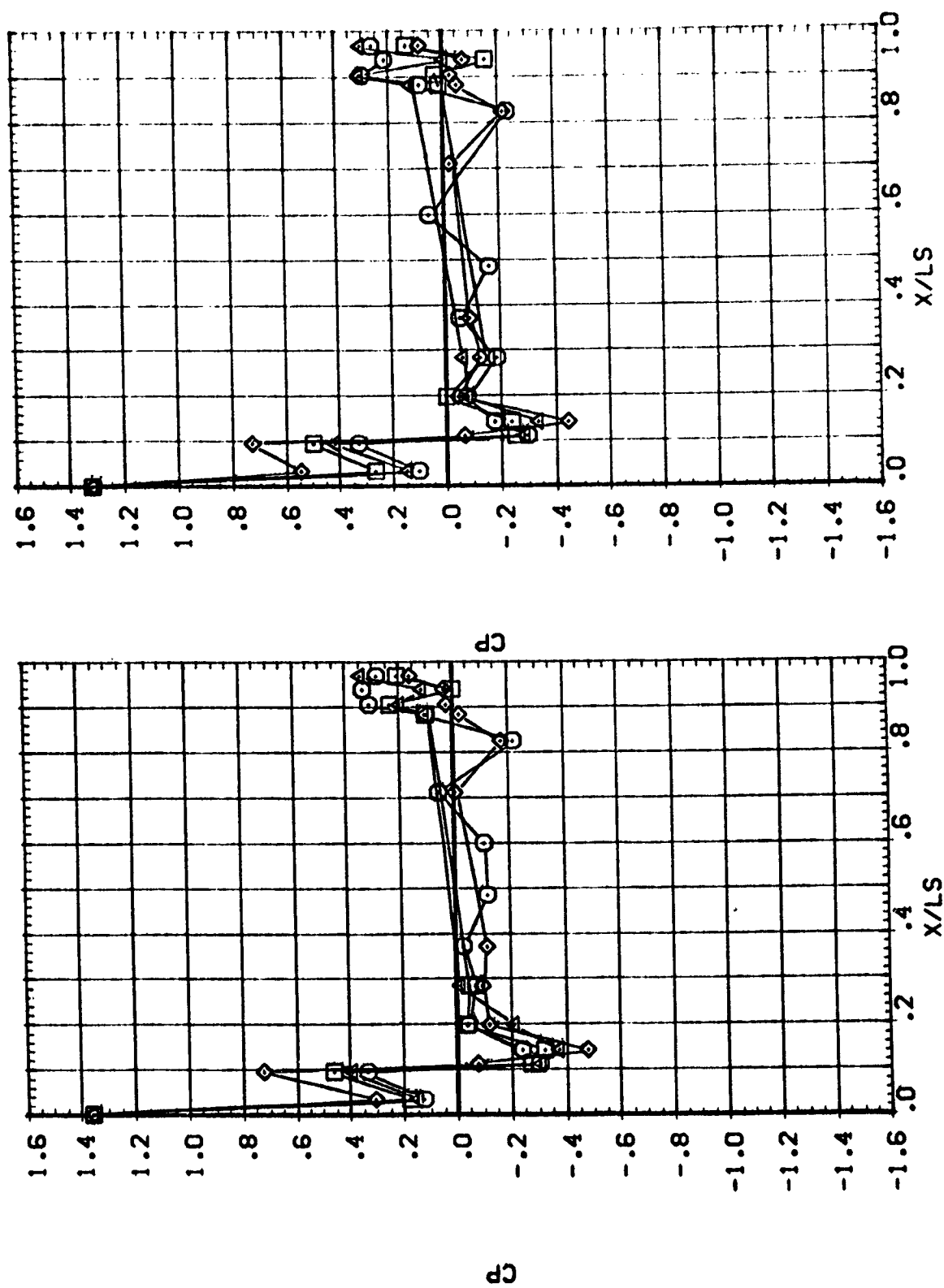
LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES



AMES 11-707 1A9 02A + S3 + T9 SRM BOOSTER

(RBMS07)

SYMBOL	P41	BETAT	MACH	PARAMETRIC VALUES			
				ALPHAT	ORBIT	ELEVON	
○	180.000	4.110	1.394	.000	.000	.000	
□	225.000	8.210		.000	.000	.000	
◇	270.000						
△	315.000						



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES



AMES 11-707 1A9 02A + S3 + T9 SRM BOOSTER

(R8MS09)

SYMBOL
 ○ □ ◇

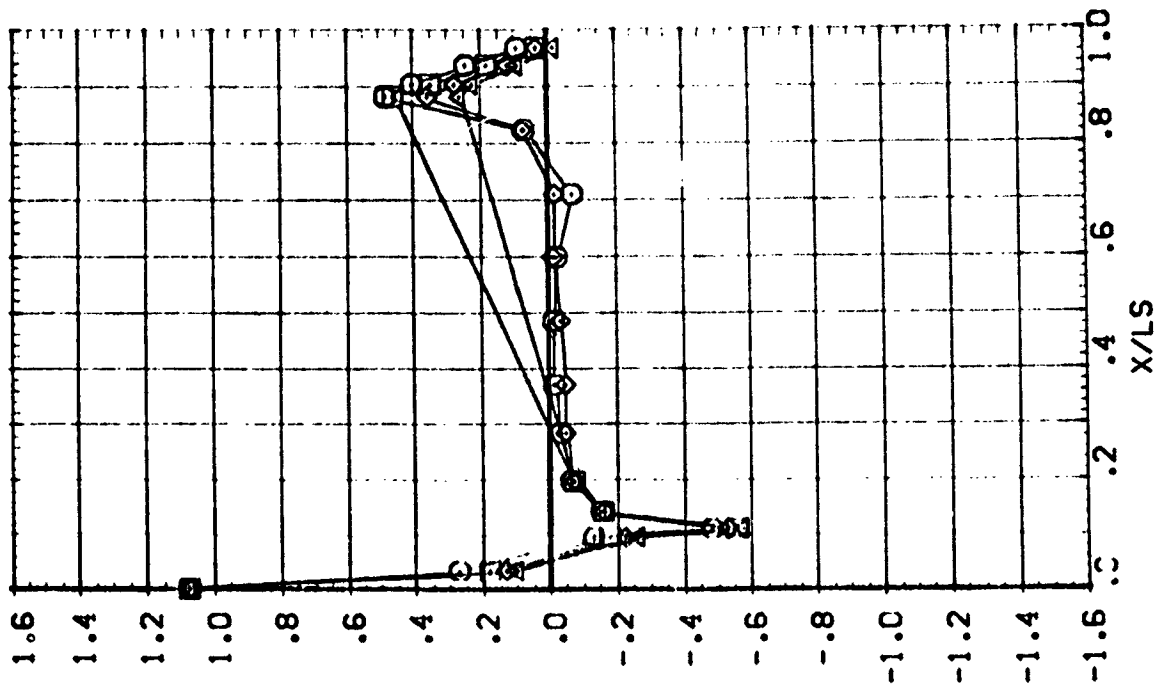
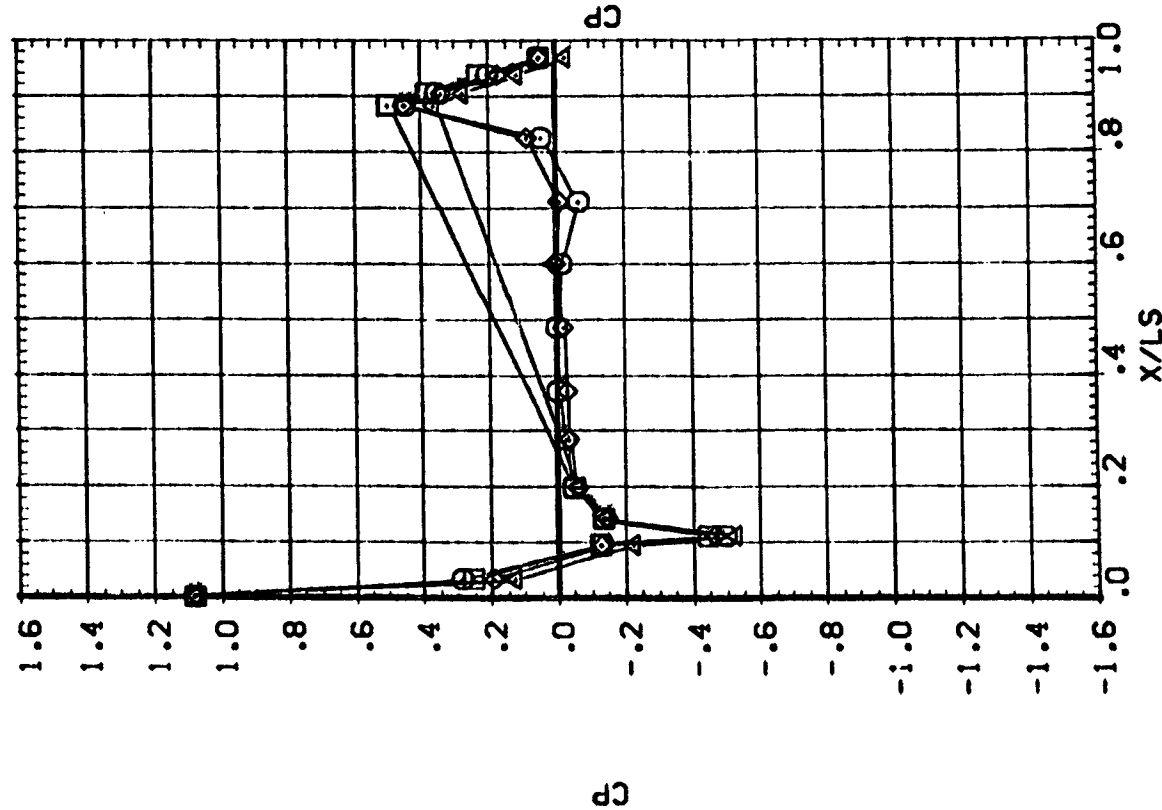
P-1
 .000
 45.000
 90.000
 135.000

BETAT
 -4.030
 .020

MACH
 .598

PARAMETRIC VALUES
 ALPHA 4.000
 RUDER .000
 RUDFLR .000

ORBITAL
 ELEVON
 .500
 .000

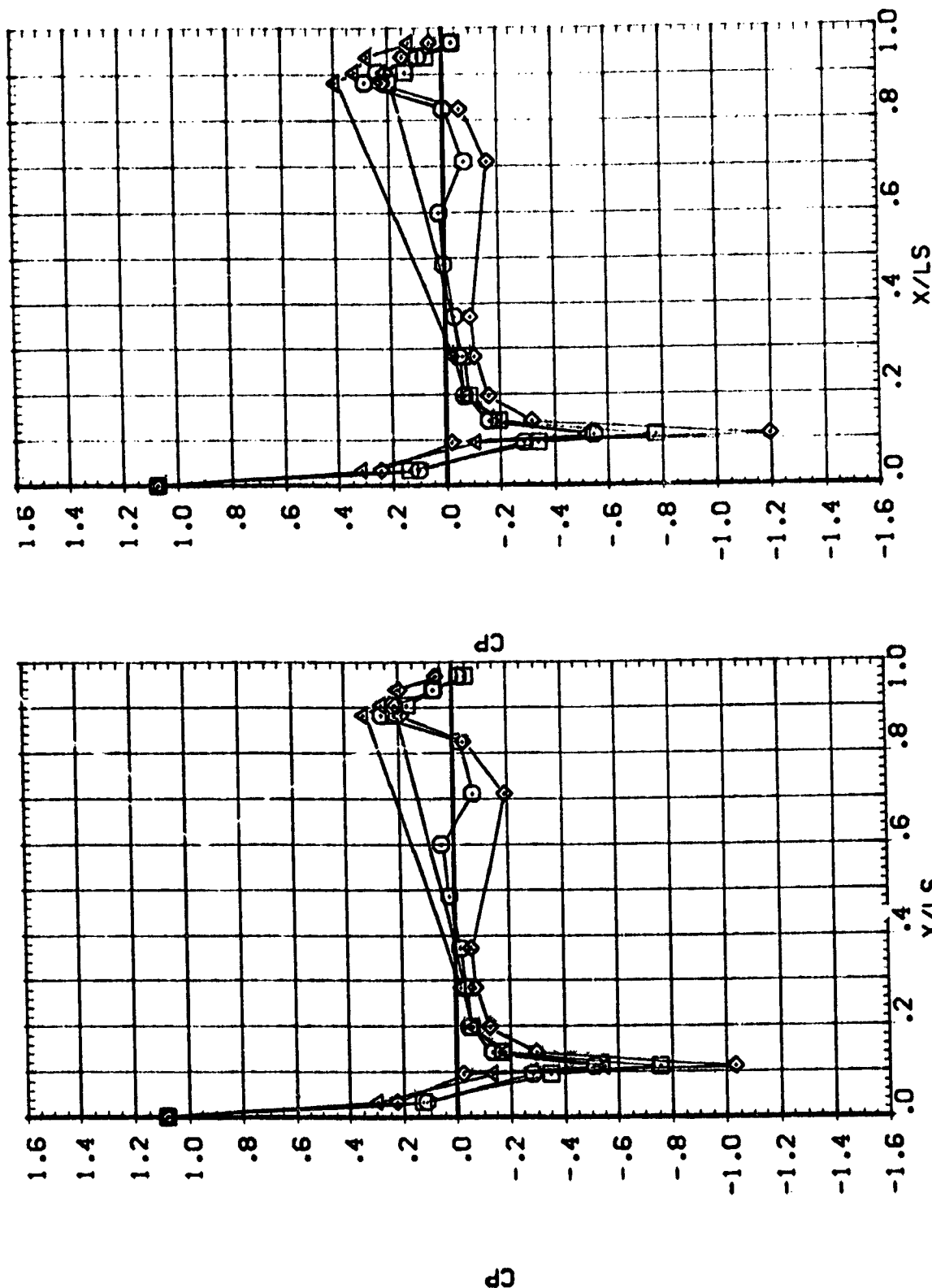


LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES



AMES 11-707 1A9 02A + S3 + T9 SRM BOOSTER (RBMS09)

SYMBOL	P-HI	BETAT	MACH	PARAMETRIC VALUES			
				ALPHAT	RJODER	RJOFIR	ORBIN
○	180.000	-4.030	.598	4.000	.000	.000	.000
□	225.000	.020					
◇	270.000						
△	315.000						



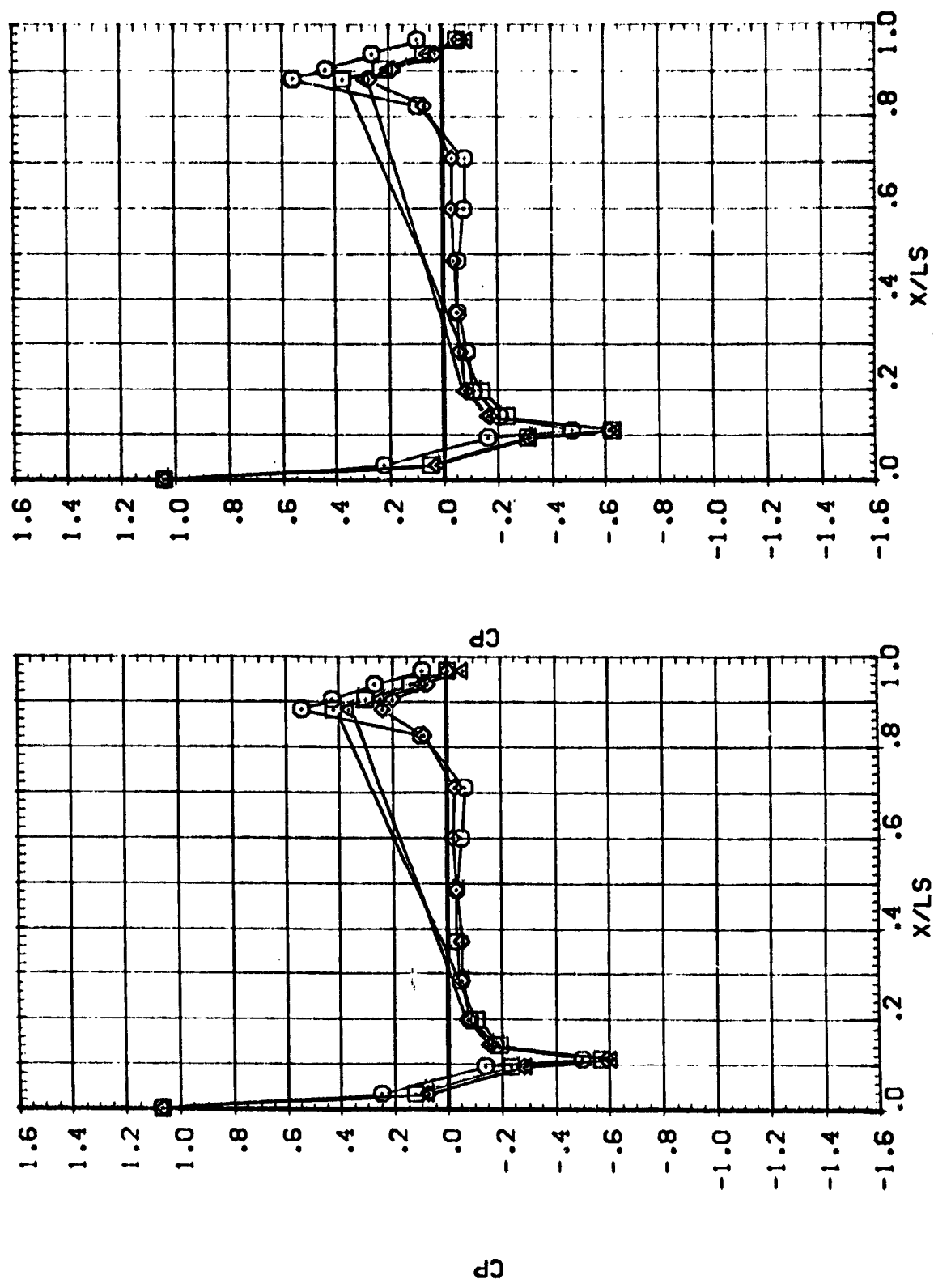
LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES



4-5-74

AMES 11-707 1A9 02A + S3 + T9 SRM BOOSTER (RBMS09)

SYNCH	PM:	BETA	MACH	PARAMETRIC VALUES
OLIO 4	.000	4.080	.597	ALPHAT 4.000 ORBINC .500
	45.000	8.150		RJODER .000 ELEVON .000
	90.000			RJOFIR .000
	135.000			



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

AMES 11-707 1A9 02A + S3 + T9 SRM BOOSTER

(RBMS09)

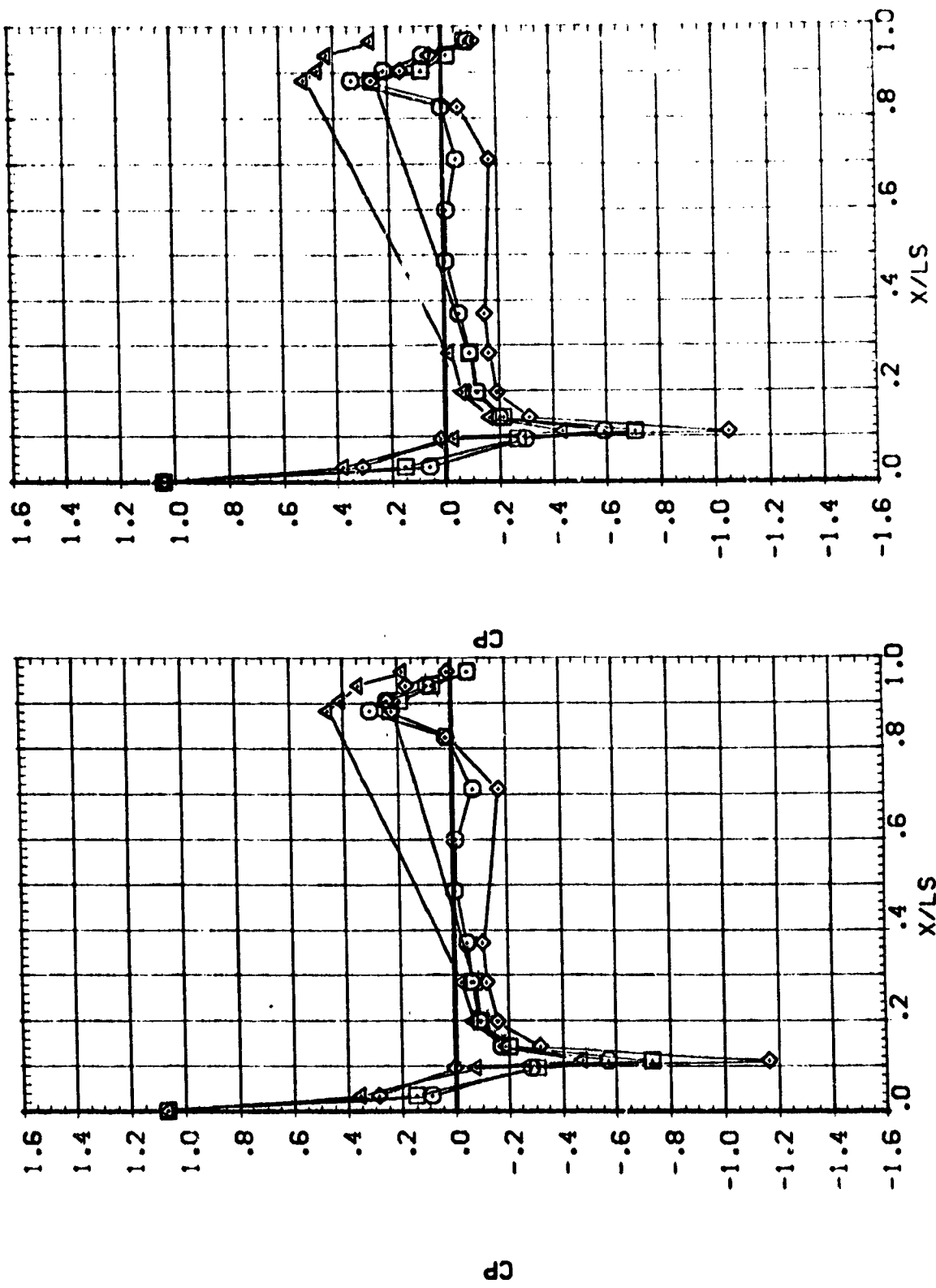
SYMBOL
O
□
◇
△

PHI
180.000
225.000
270.000
315.000

BETAT
4.080
8.150

VACH
.597

PARAMETRIC VALUES
ALPHAT 4.000 ORBITNC .500
RUDDER .000 ELEVON .000
RUDFLR .000



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES



AMES 11-707 :A9 02A + S3 + T9 SRM BOOSTER

(RBMS09)

SYMBOL
□ ○ ◇ △

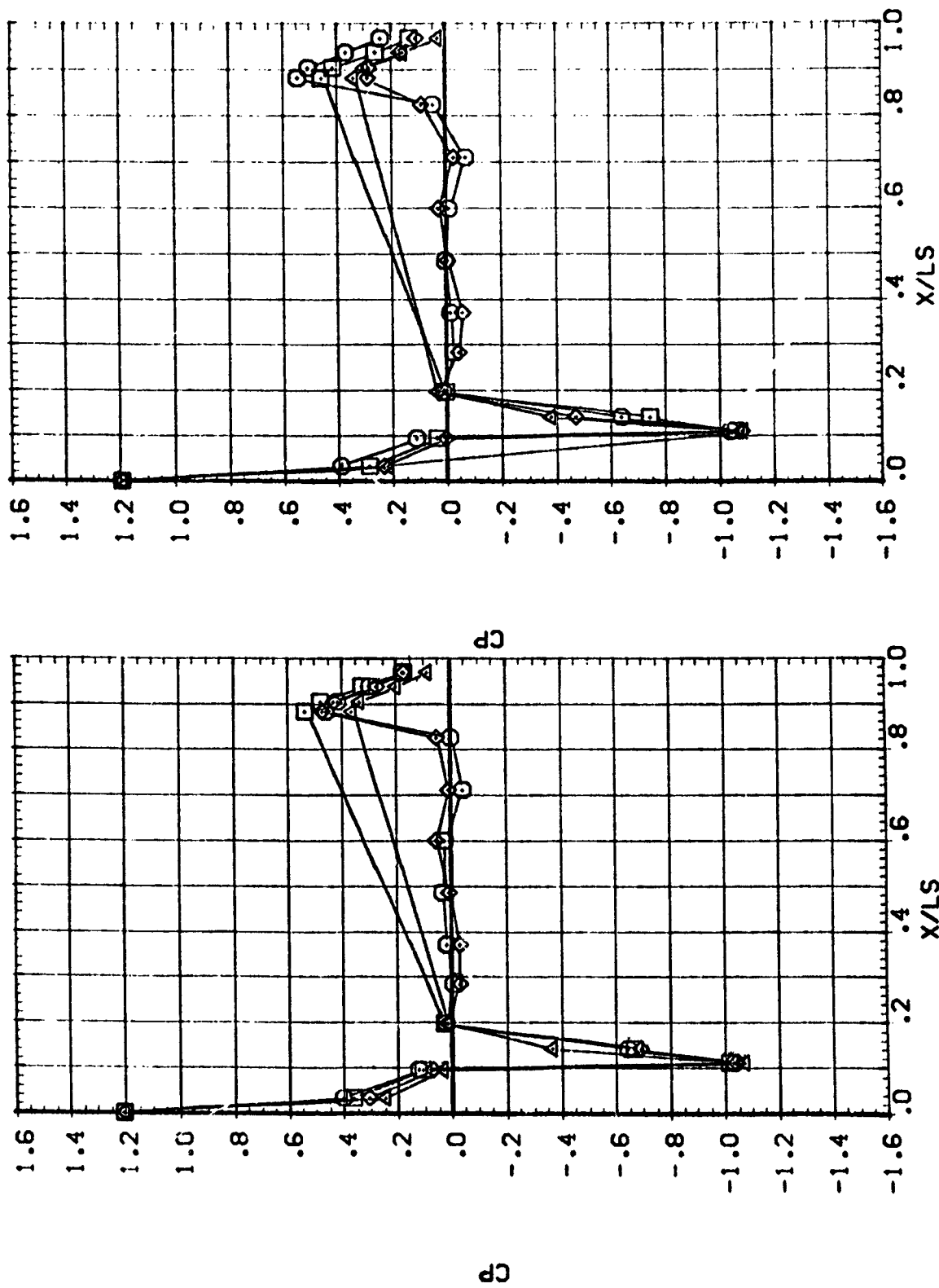
PHI .000
45.070
90.000
135.000

BETA° -4.080
2.070

MACH .901

PARAMETRIC VALUES
ALPHAT 4.000
RUDDER .000
RUDFLR .000

.500
.000



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

AVES 11-707 :A9 C2A + S3 + T9 SRM BOOSTER

(RBMS09)

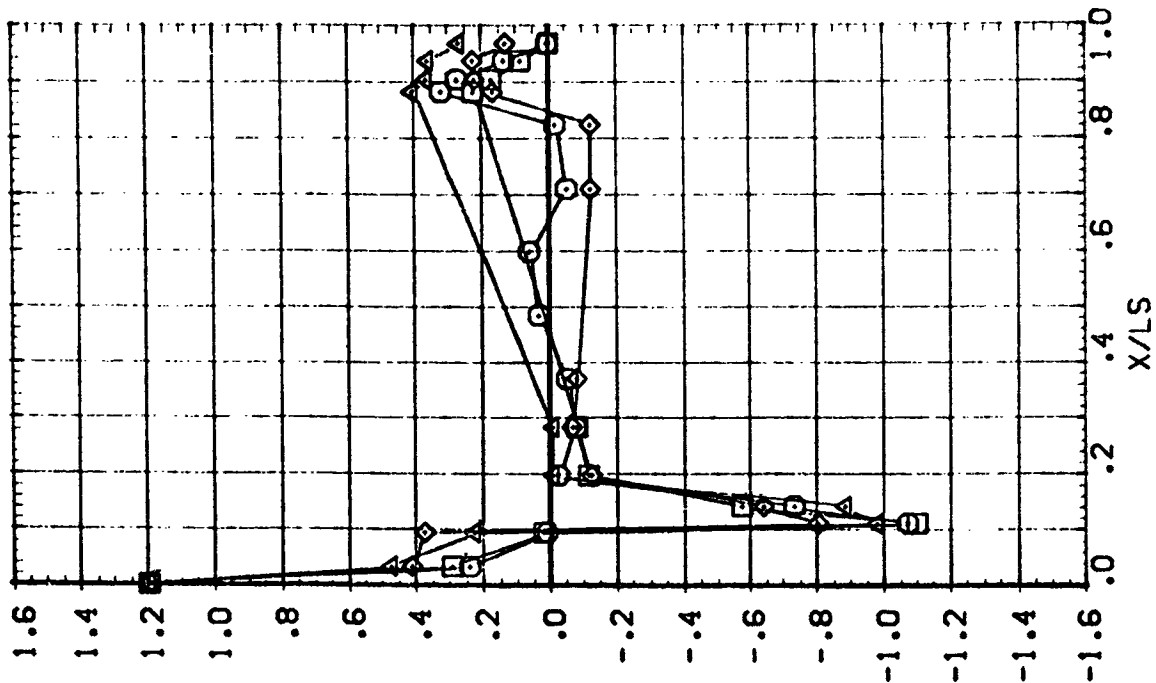
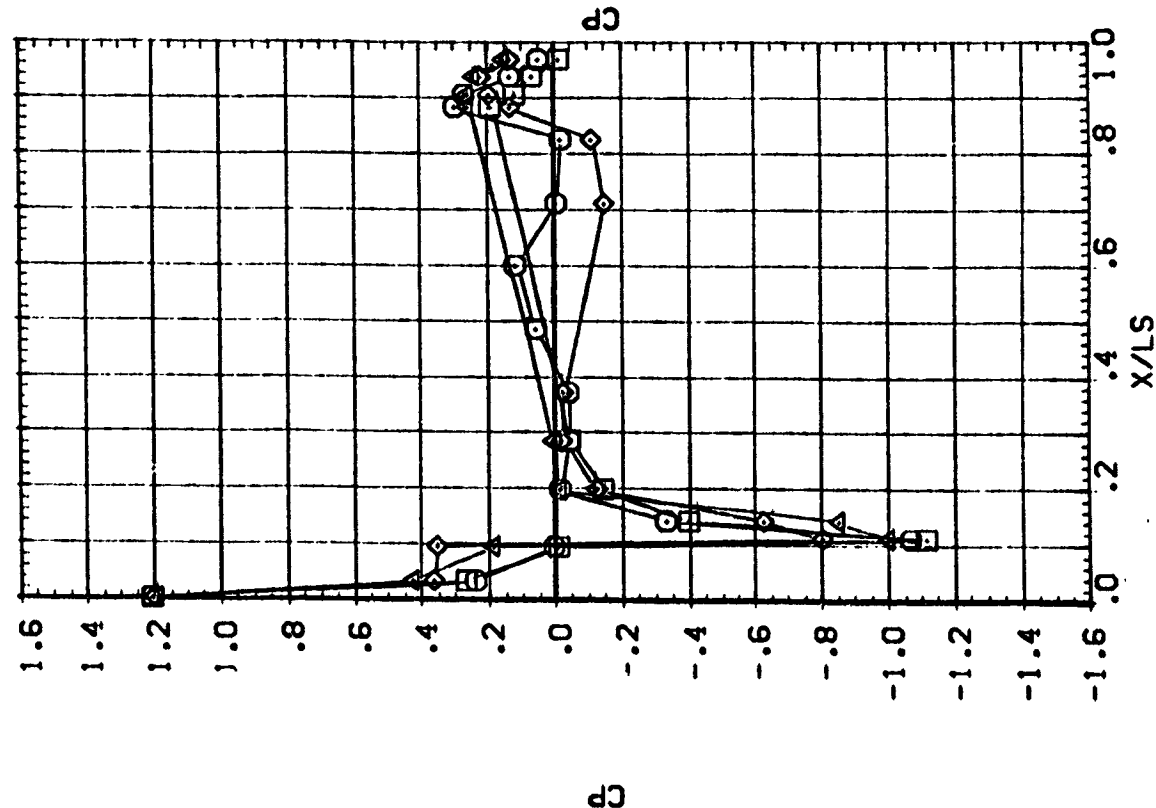
SYSC
0104

PH: 180.000
225.000
270.000
315.000

BETAT -4.080
2.070

WACH .901

PARAMETRIC VALUES
ALPHAT 4.000
RUDGER .000
RUDFLR .000
ORBIN 4.000
ELEVON .000



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES



AMES 11-707 1A9 02A + S3 + T9 SRM BOOSTER

(RBMS09)

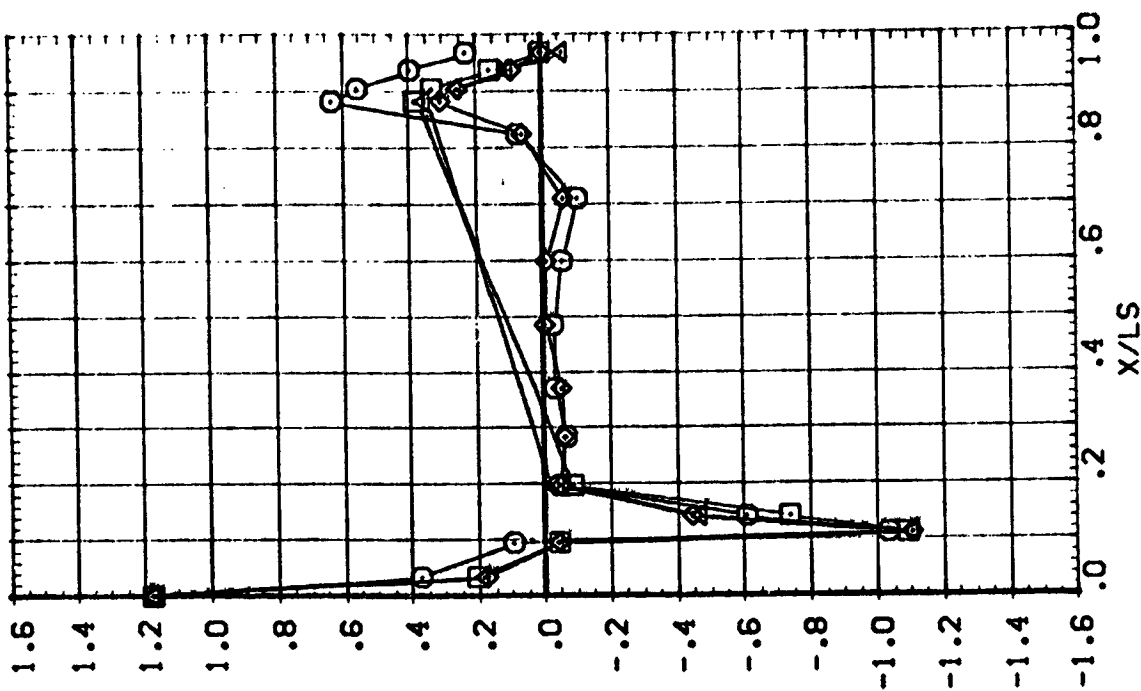
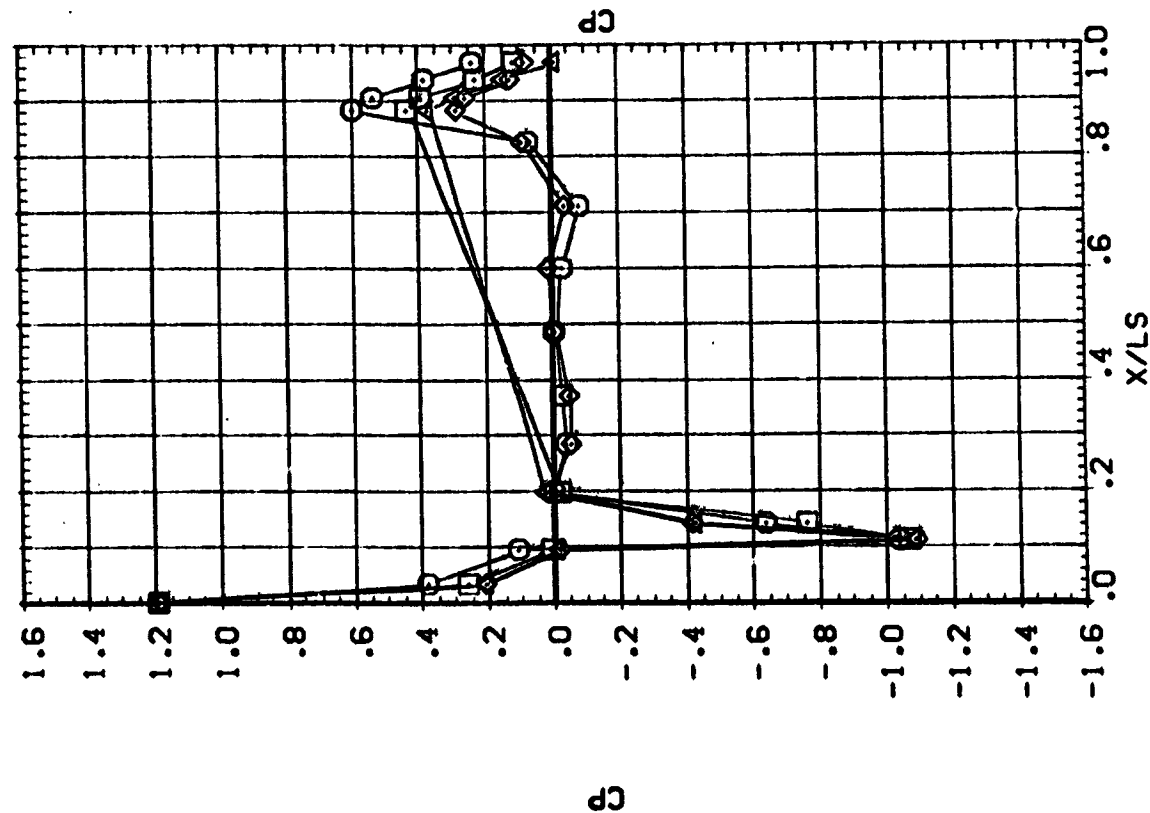
SYMBOL
O
◇
△

PHI
.000
45.000
90.000
135.000

BETAT
4.130
8.240

MACH
.901

PARAMETRIC VALUES
ALPHAT 4.000 ORBITINC .500
RUDDER .000 ELEVON .000
RUOFLR .000



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

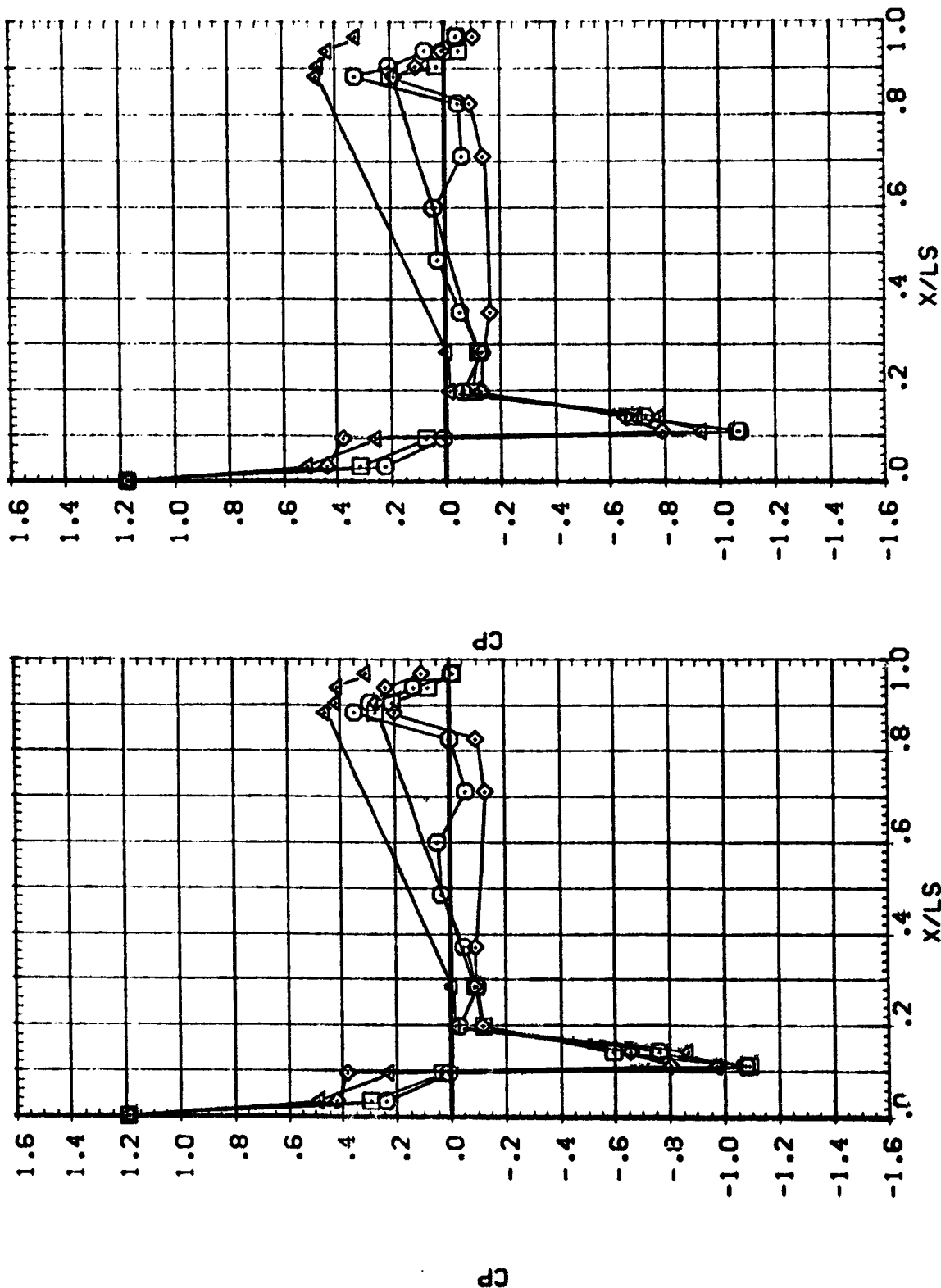
SYMBOL
 180.000
 225.000
 270.000
 315.000

PHI
 180.000
 225.000
 270.000
 315.000

BETAT
 4.130
 8.240

MACH
 .901

PARAMETRIC VALUES
 ALPHAT 4.000
 RUDDER .000
 RUDFLR .000
 DRBINC .500
 ELEVON .000



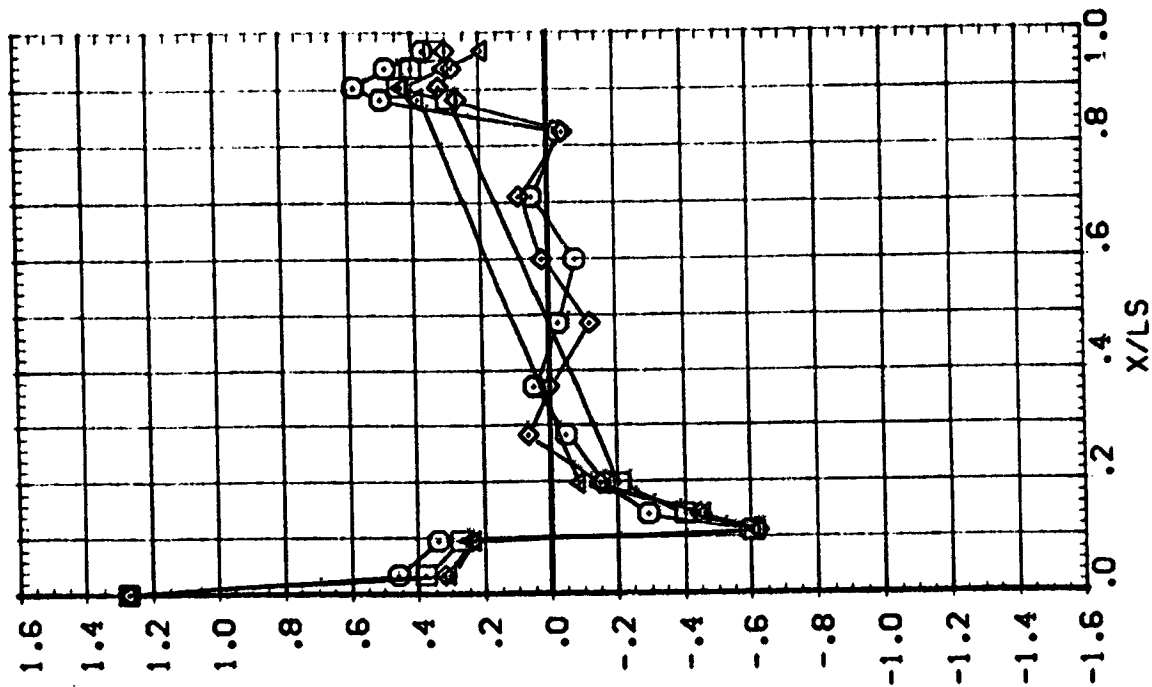
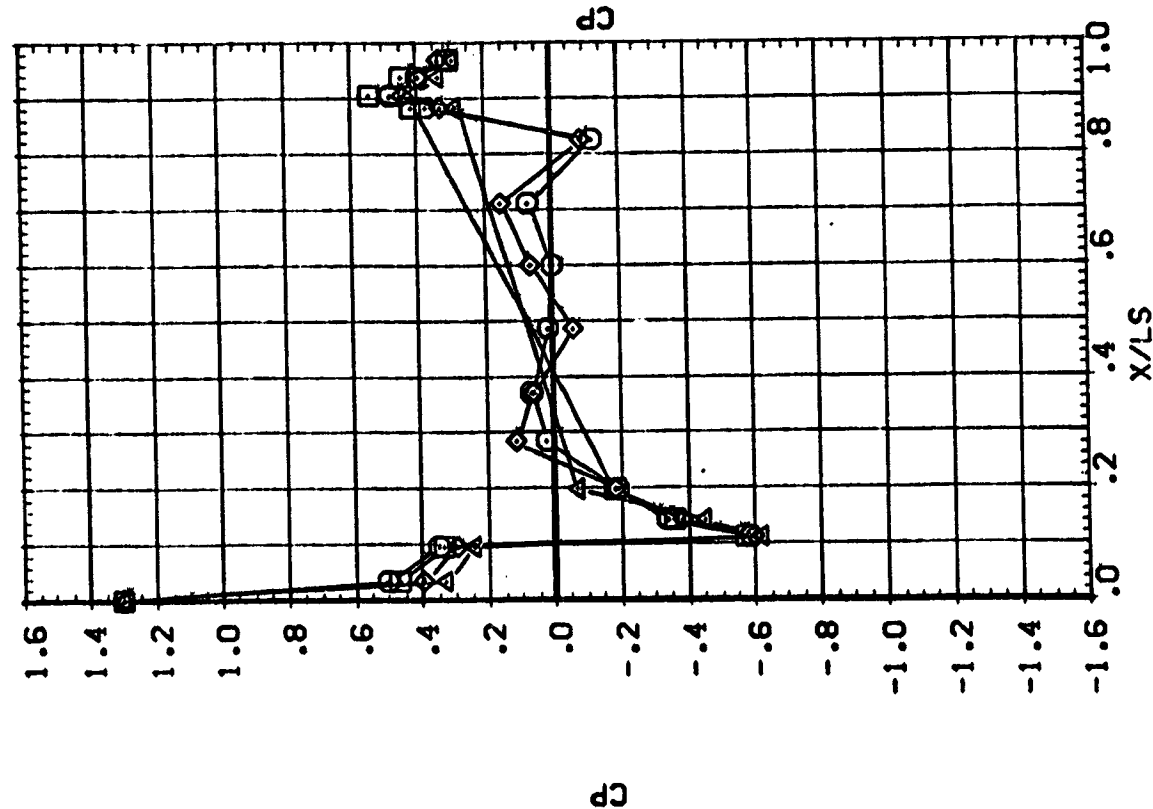
LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES



AMES 11-707 1A9 02A + S3 + T9 SRM BOOSTER

(RBMS09)

SYMBOL	PHI	BETAT	MACH	PARAMETRIC VALUES			
				ALPHA-T	ORBIT	ORBIT	
○	.000	-4.080	1.103	4.000	.000	.500	
□	45.000	2.080		.000	.000	.000	
◇	90.000			.000			
△	135.000						



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

AMES 11-707 1A9 02A + S3 + T9 SRM BOOSTER

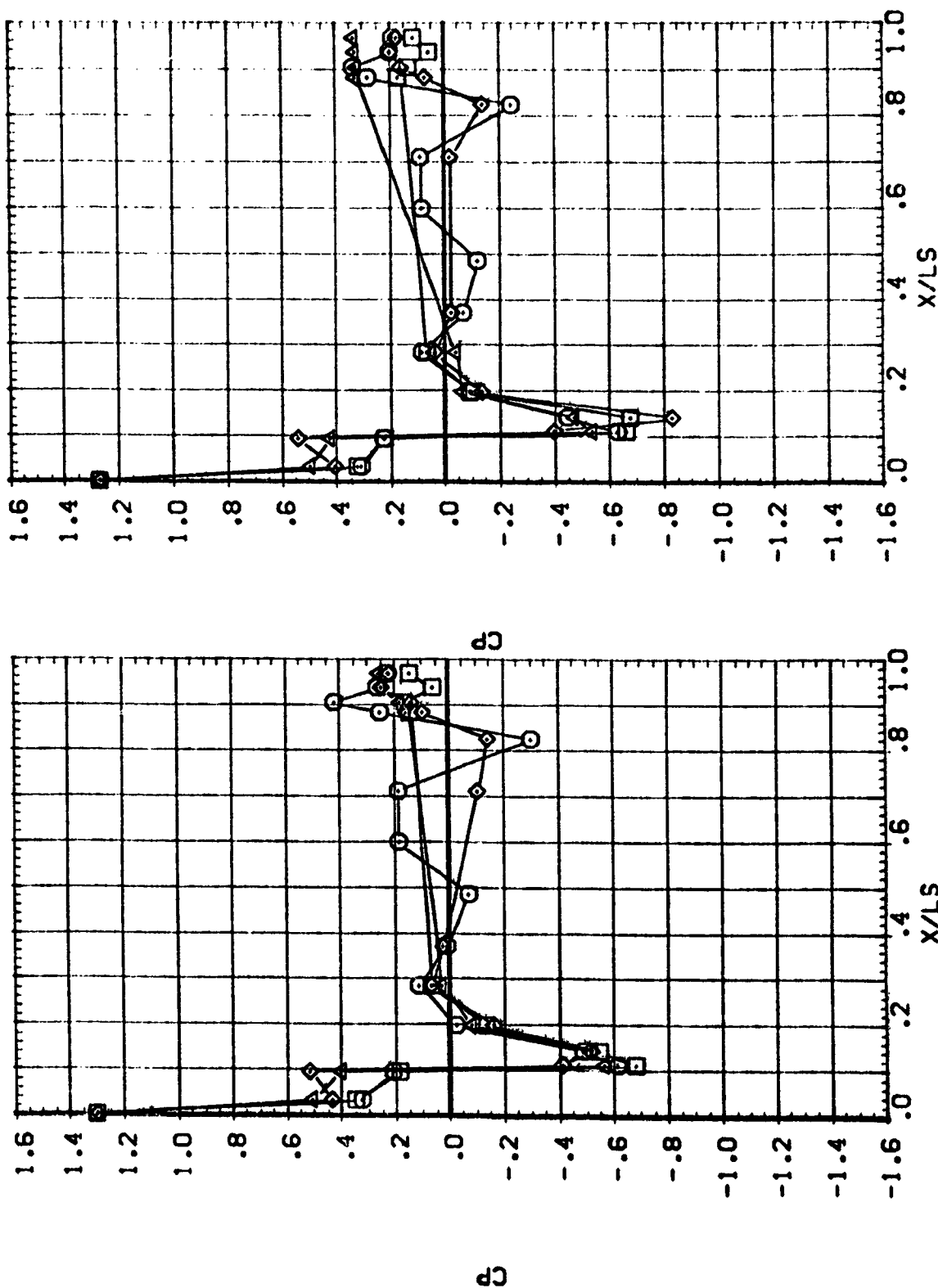
[RBMS09]

SYMBOL

180.000
225.000
270.000
315.000

PHI
BETAT
MACH
-4.080
2.080
1.103

PARAMETRIC VALUES
ALPHAT 4.000
RUDDER .000
R_JFLR .000
CRBINC .500
ELEVON .000

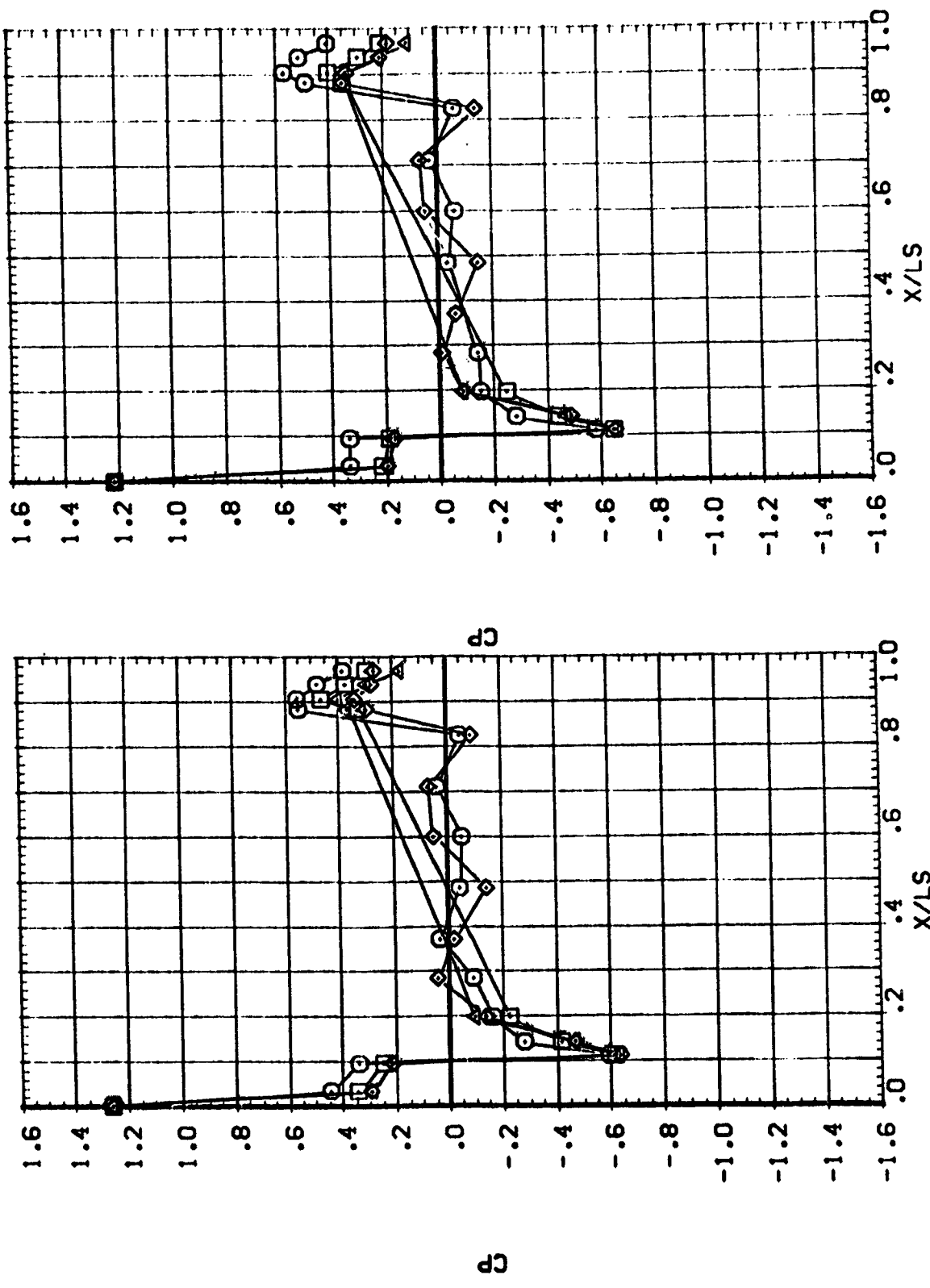


LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES



AMES 11-707 :A9 C2A + S3 + T9 SRM BOOSTER (RBMS09)

Symbol	P-1	BETAT	MACH	PARAMETRIC VALUES
○	.000	4.140	1.103	ALPHAT
□	45.000	8.260		RJ00ER
◇	90.000			RJ0FLR
△	135.000			4.000
				ORBIN
				.500
				ELEV
				.000



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

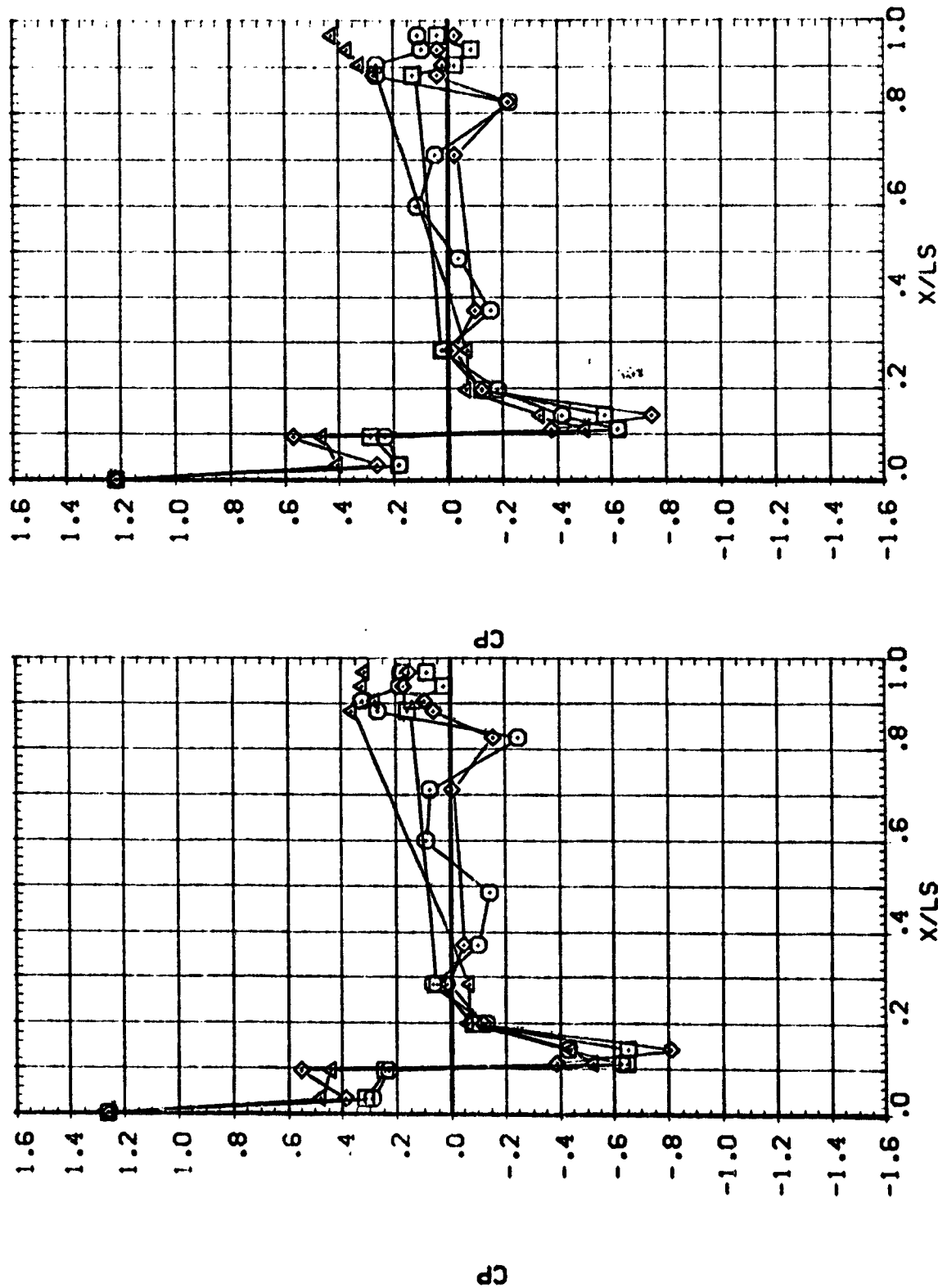
AMES 11-707 1A9 02A + S3 + T9 SRM BOOSTER

(RBMS09)

SYMBOL
O
I
◇
△

PH: 180.000 225.000 270.000 315.000
BETAT 4.140 8.260
MACH 1.103

PARAMETRIC VALUES
ALPHAT 4.000 ORBINC .500
RUDDER .000 ELEVON .000
RUOFLR .000



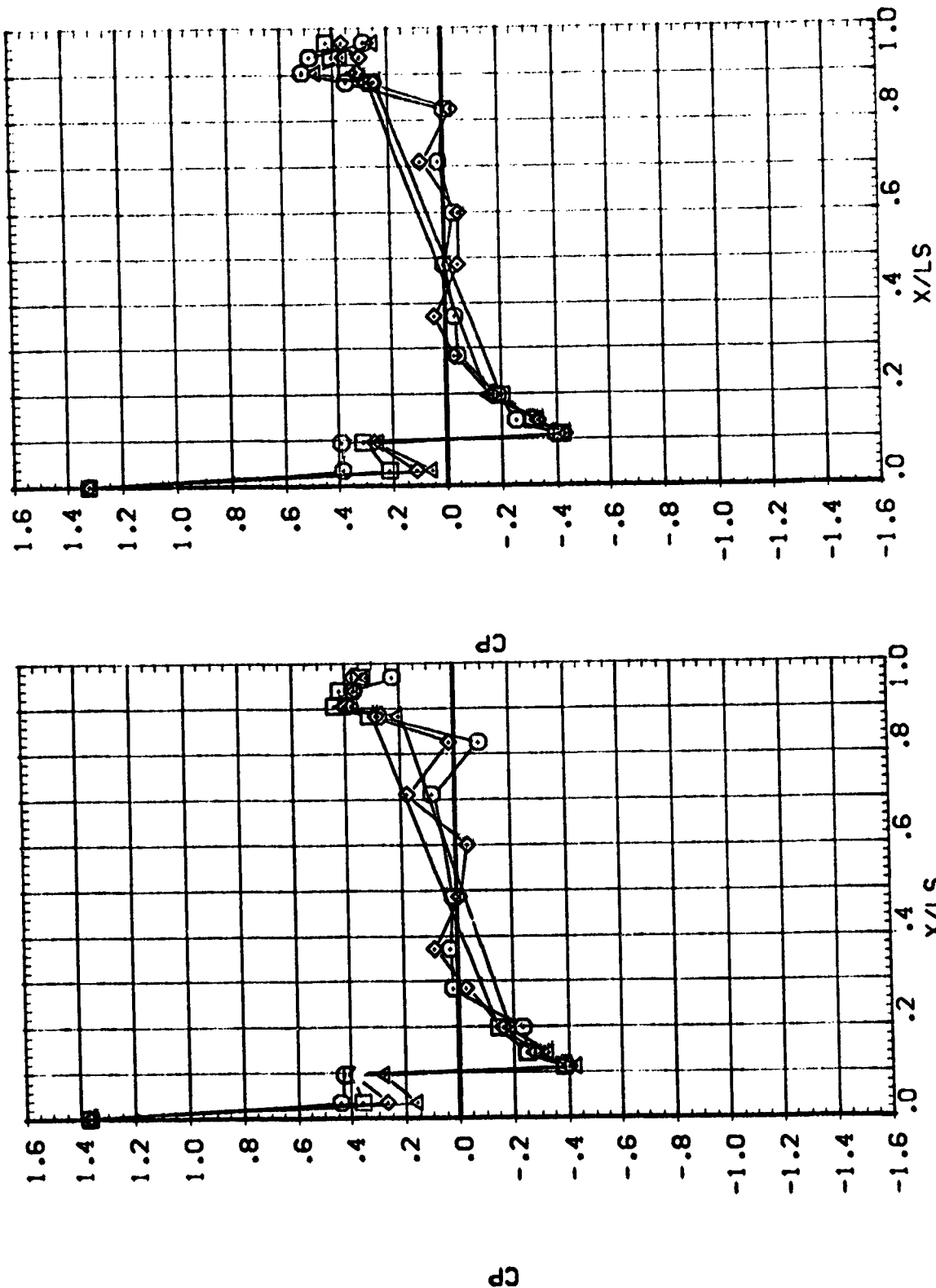
LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES



AVES 11-707 1A9 02A + S3 + T9 SRM BOOSTER

(RBMS09)

SYMBOL	PHI	BETAT	MACH	ALPHAT	DATA	PARAMETRIC VALUES
□	.000	-4.060	1.249	4.000	ORBIT	.500
○	45.000	2.070		.000	ELEVON	.000
◇	90.000					
△	135.000					



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

AMES 11-707 1A9 02A + S3 + T9 SRM BOOSTER

(RBMS09)

SYMBOL

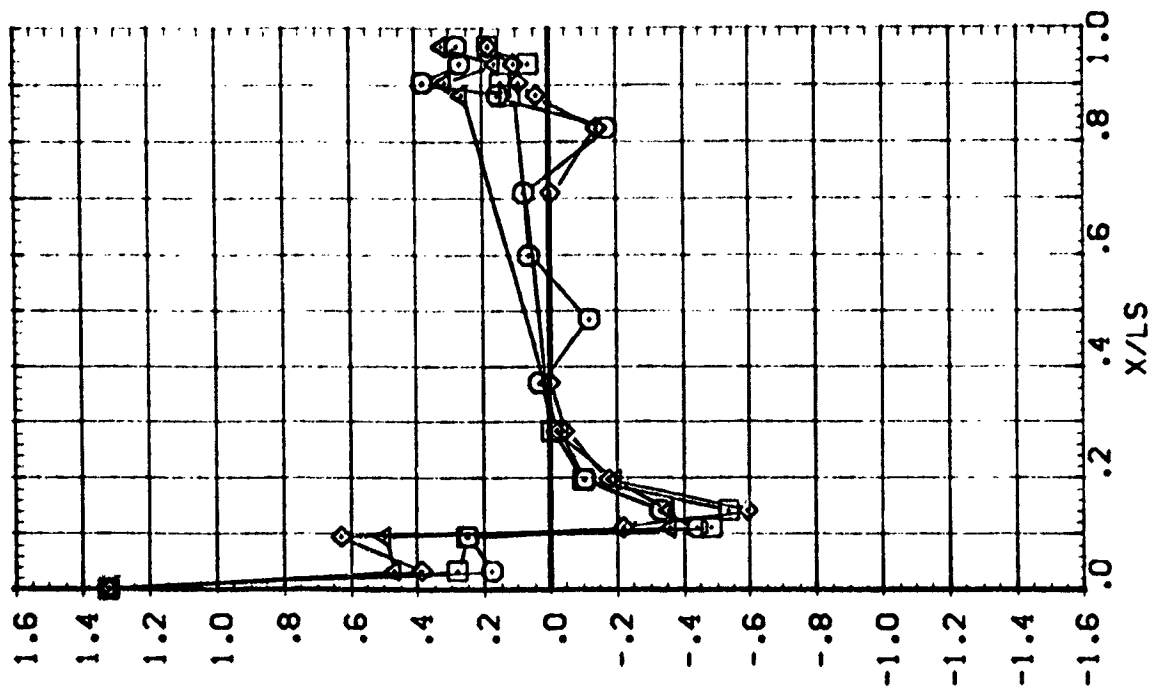
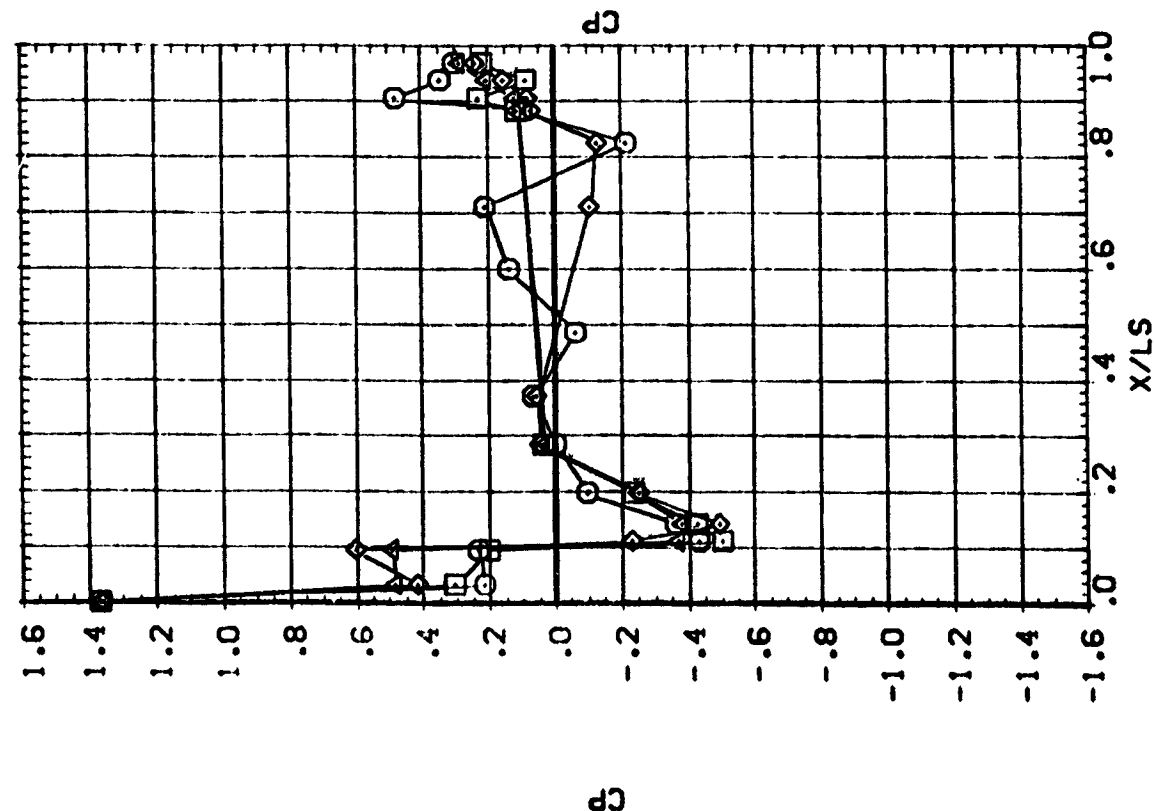
PHI
180.000
225.000
270.000
315.000

BETAT
-4.060
2.070

MACH
1.249

PARAMETRIC VALUES
ALPHAT
RUDDER
RUDFLR

4.000
.000
.000
ORBITAL
ELEVON
.000
.000



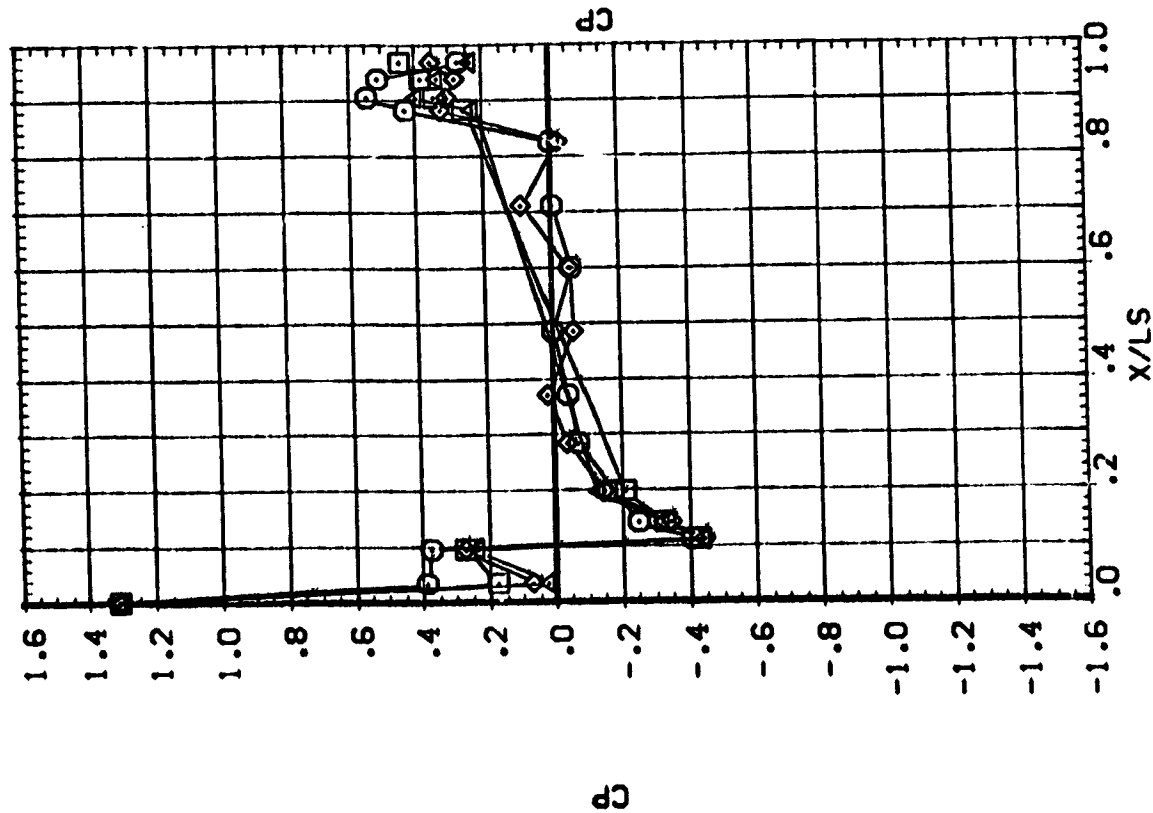
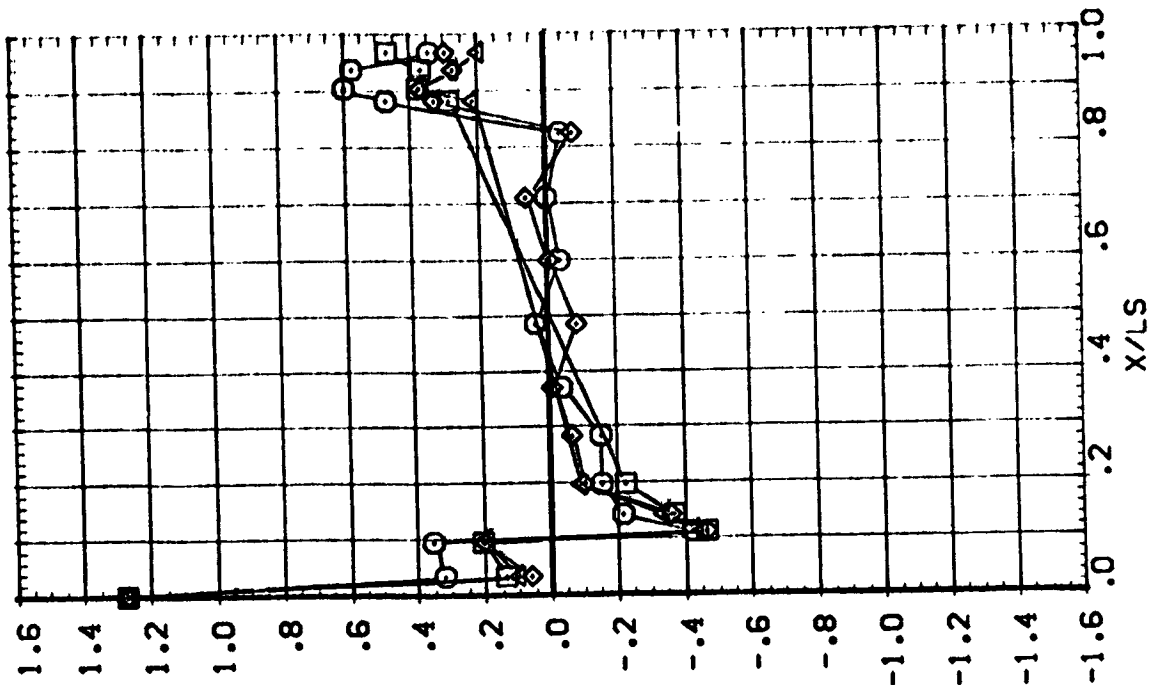
LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES



AMES 11-707 1A9 02A + S3 + T9 SRM BOOSTER

(RBMS09)

PHI	BETAT	MACH	PARAMETRIC VALUES	
.000	4.110	1.249	ALPHAT	4.000
45.000	8.210		RUDER	.000
90.000			RUDFLR	.000
135.000				



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

AMES 11-707 1A9 02A + S3 + T9 SRM BOOSTER

(RBMS09)

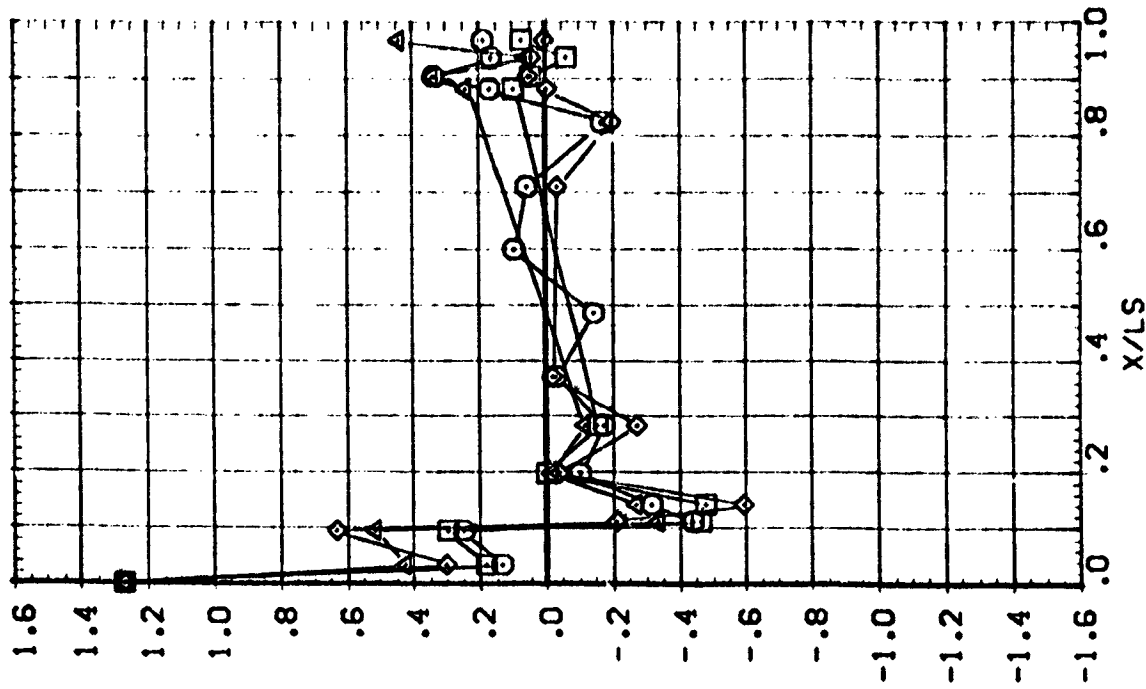
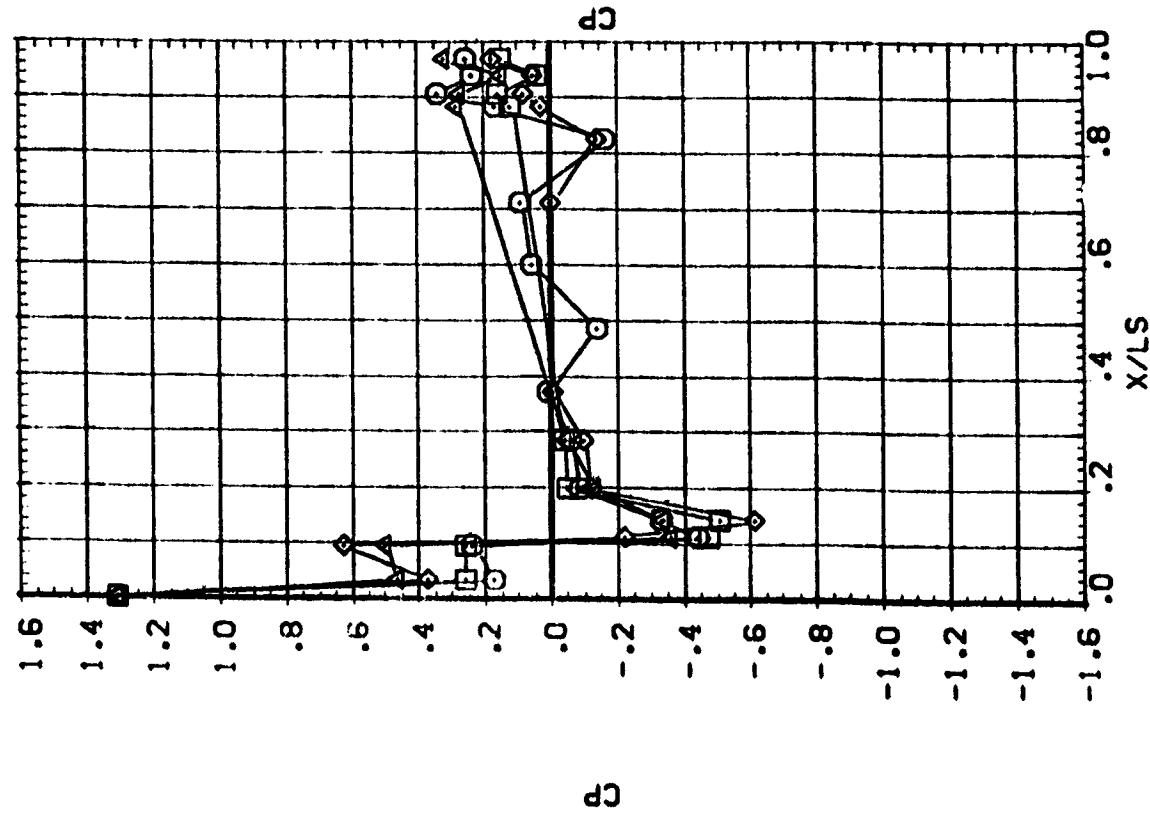
SYMBOL
○
◇
△

PHI
180.000
225.000
270.000
315.000

BETAT
4.110
8.210

MACH
1.249

PARAMETRIC VALUES
ALPHAT 4.000 ORBINC .500
R-ODER .000 ELEVON .000
R-OF-LR .000



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES



AMES 11-707 1A9 02A + S3 + T9 SRM BOOSTER

(RBMS11)

SYMBOL
O
□
◇
△

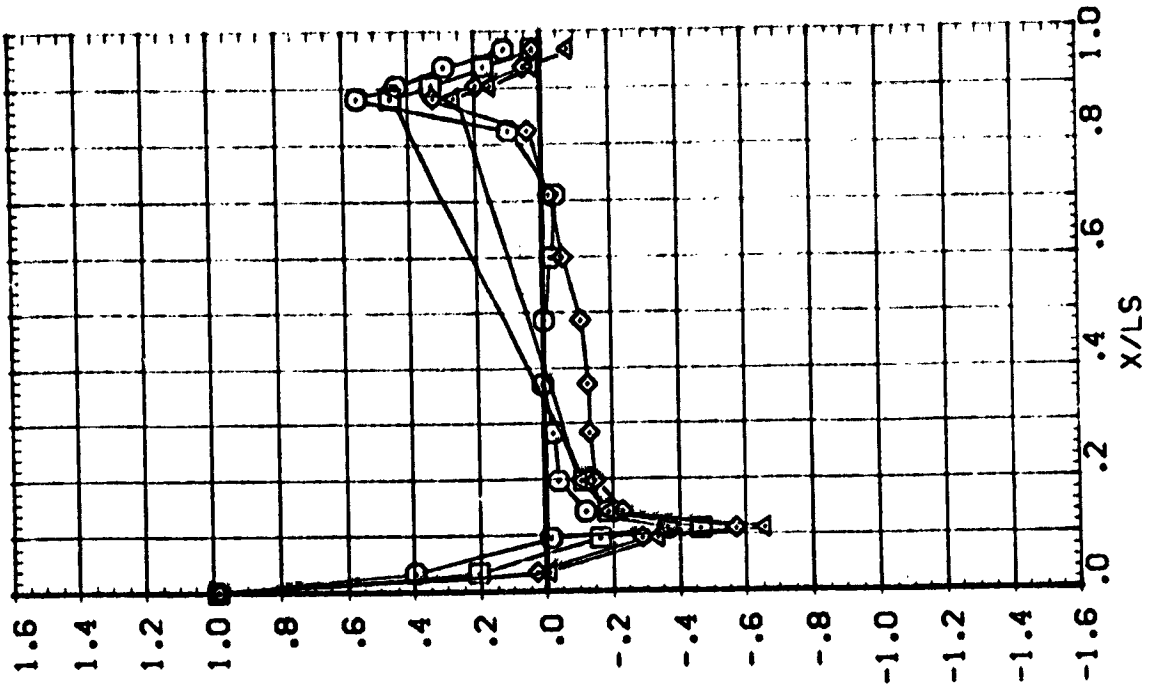
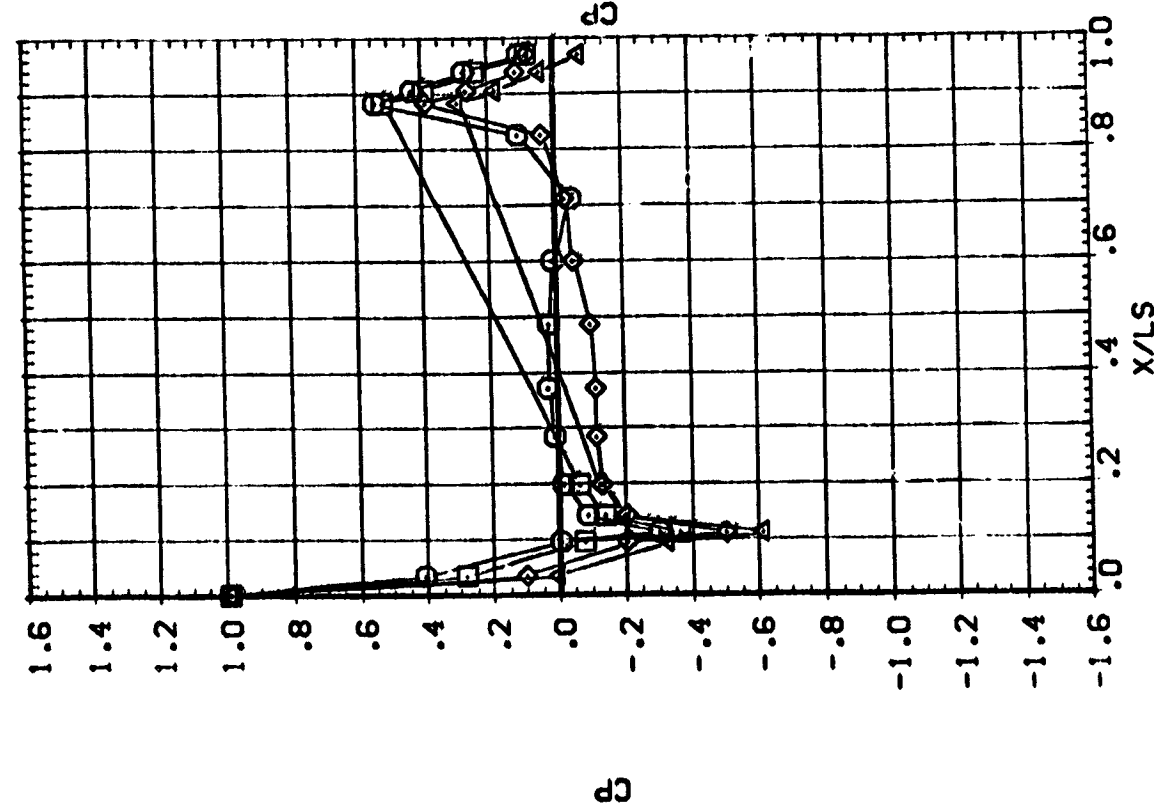
PHI .000
45.000
90.000
135.000

BETAT -4.010
.020

MACH .597

PARAMETRIC VALUES
ALPHAT 8.000
RJOER .000
RJOFLR .000

ORBITAL
ELEVON
.500
.000



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

AMES 11-707 1A9 02A + S3 + T9 SRM BOOSTER

(RBMS:11)

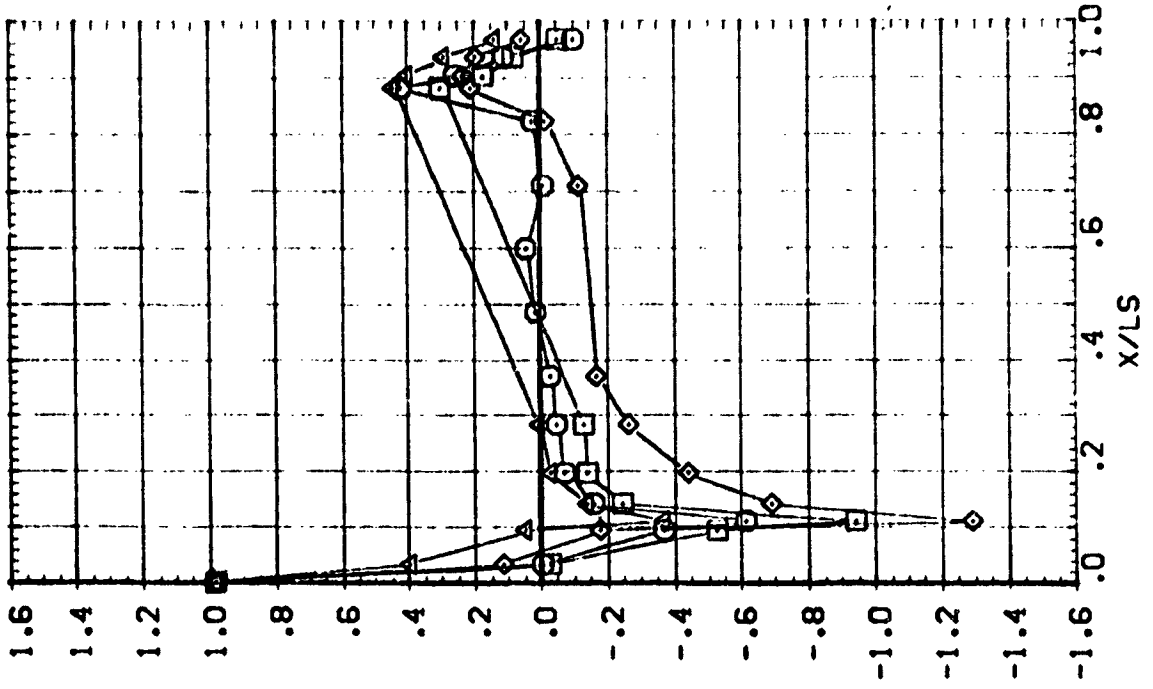
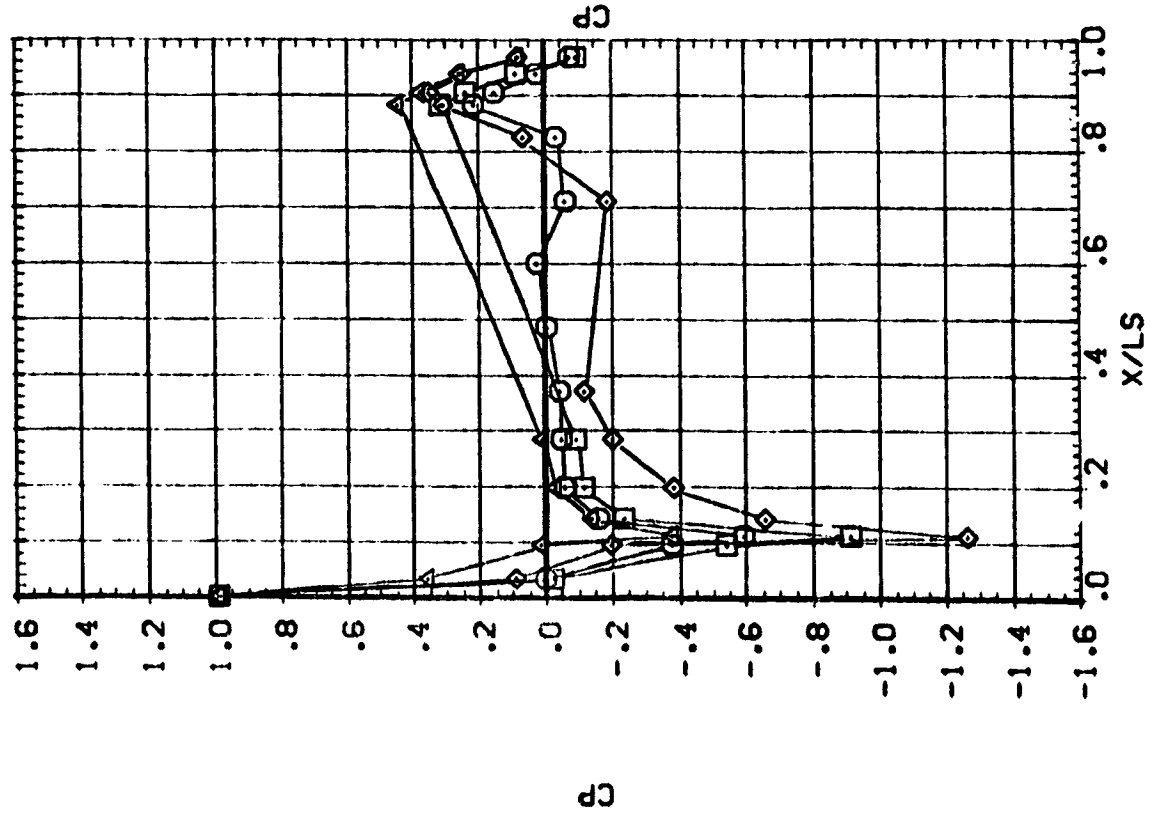
SYMBOL
O
□
△
◇

PMI 180.000
225.000
270.000
315.000

BETAT -4.010
.320

MACH .597

PARAMETRIC VALUES
ALPHAT 8.000
RUDDER .000
RUDFLR .000
ELEVON .500
ELEVON .000



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES



AMES 11-707 1A9 02A + S3 + T9 SRM BOOSTER

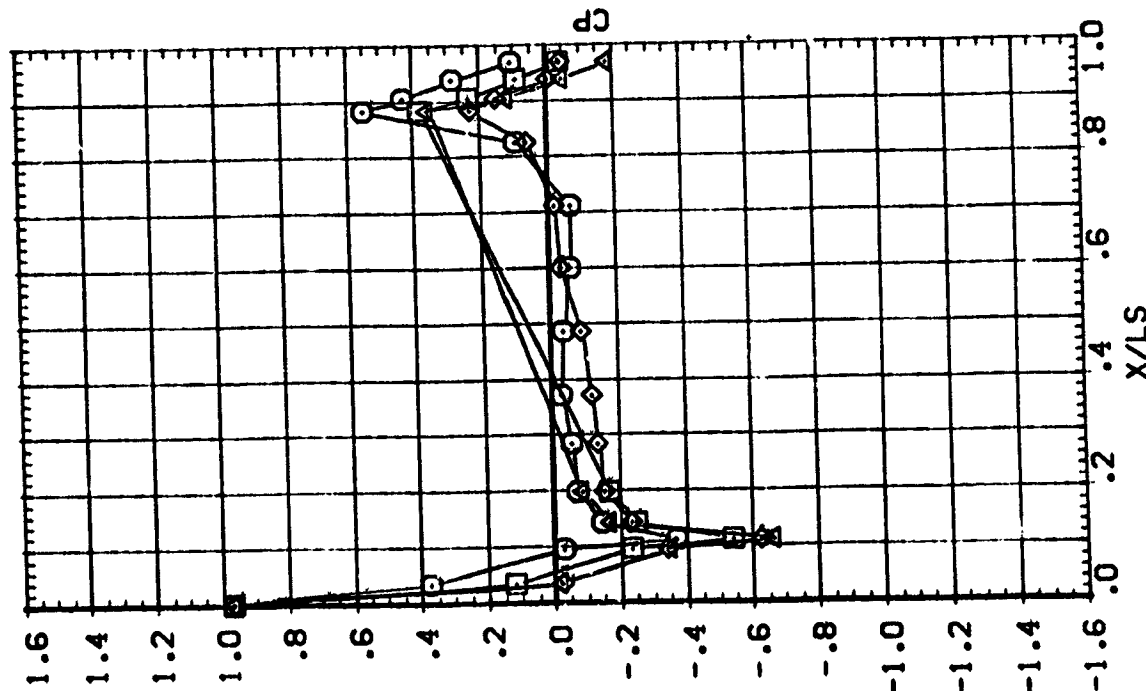
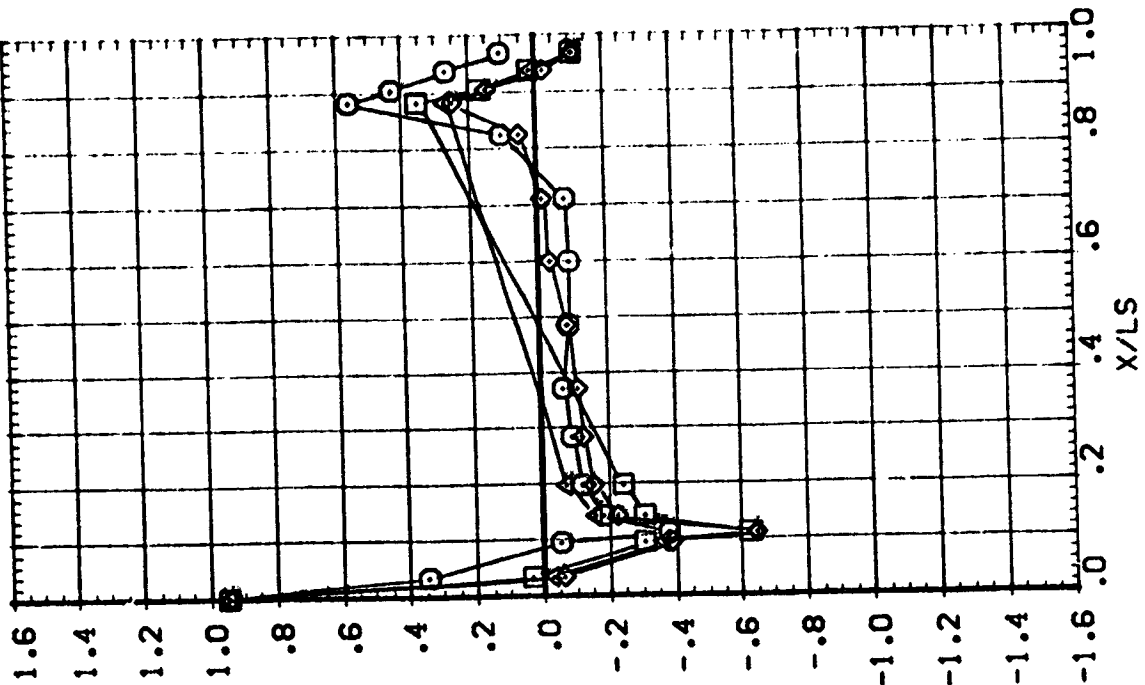
(RBMS11)

SYMBOL
 ○ □ ◇ △

PHI
 .000
 45.000
 90.000
 135.000

BETAT MACH
 4.100 .600
 8.190

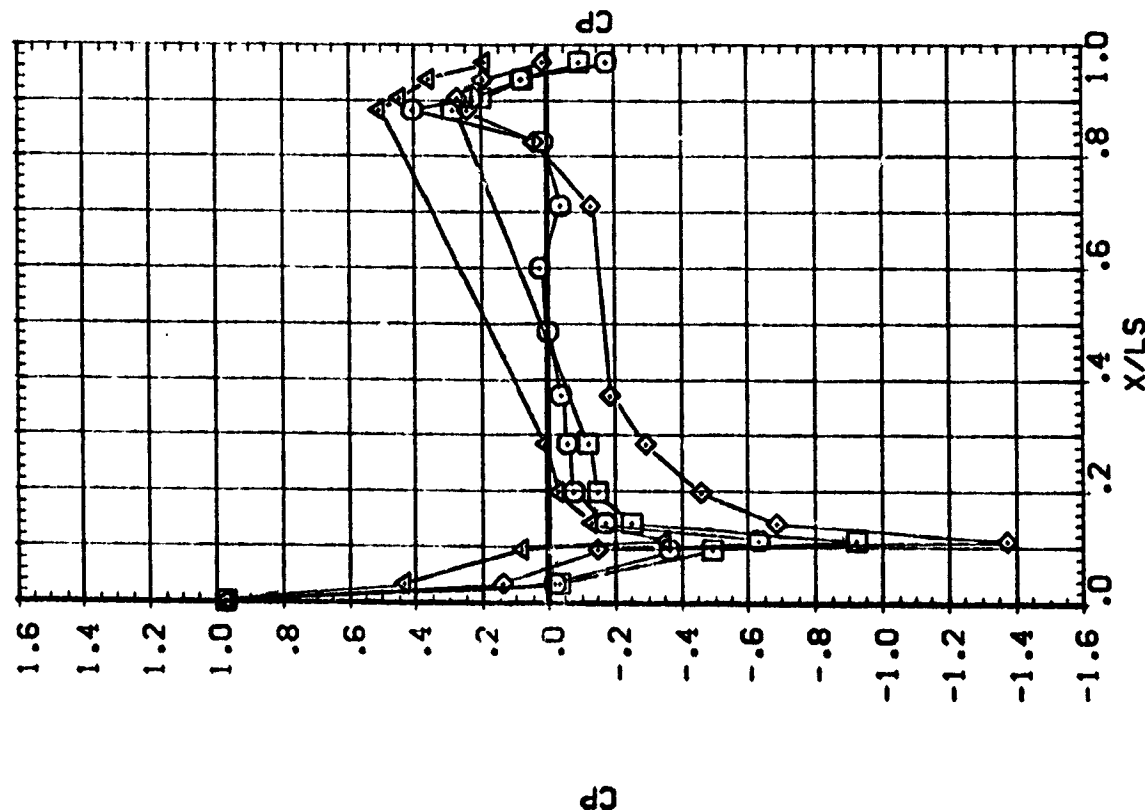
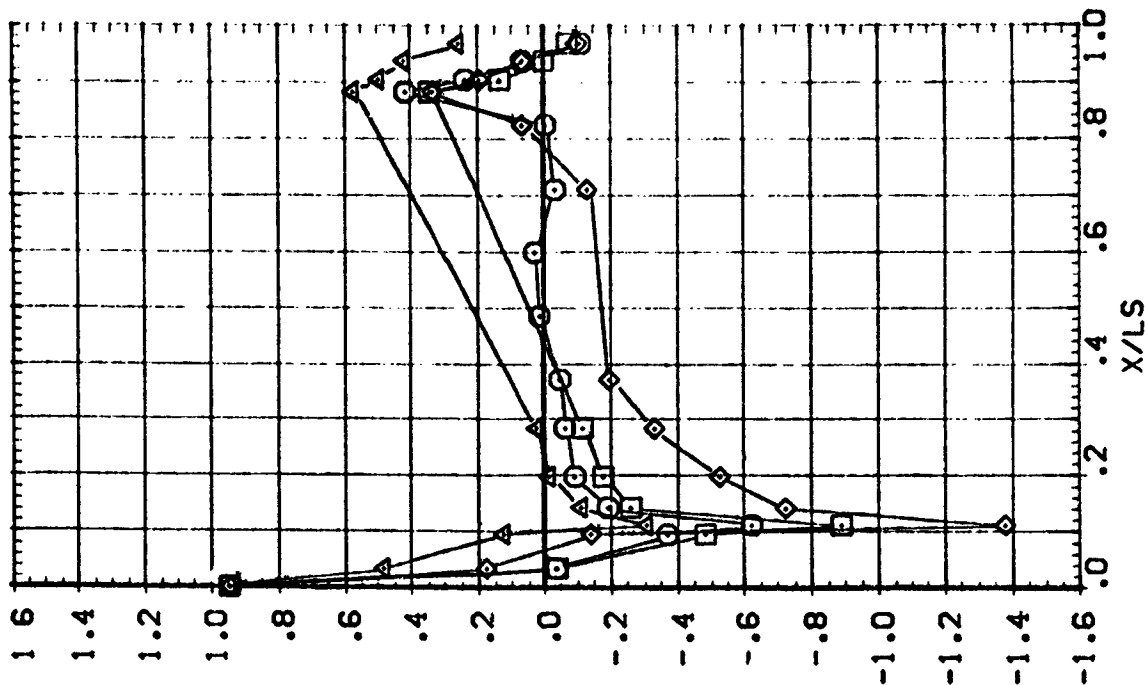
PARAMETRIC VALUES
 ALPHAT 8.000 ORBINC .500
 RUDDER .000 ELEVON .000
 RUDDLR .000



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

PARAMETRIC VALUES
 ALPHAT 8.000 ORBINC .500
 RUDDER .000 ELEVON .000
 RUOTLR .000

SYMBOL PHI BETAT MACH
 180.000 4.100 .600
 225.000 8.190
 270.000
 315.000



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

AMES 11-707 1A9 02A + S3 + T9 SRM BOOSTER

(RBMS11)

SYMBOL
 ○ □ ◇ △

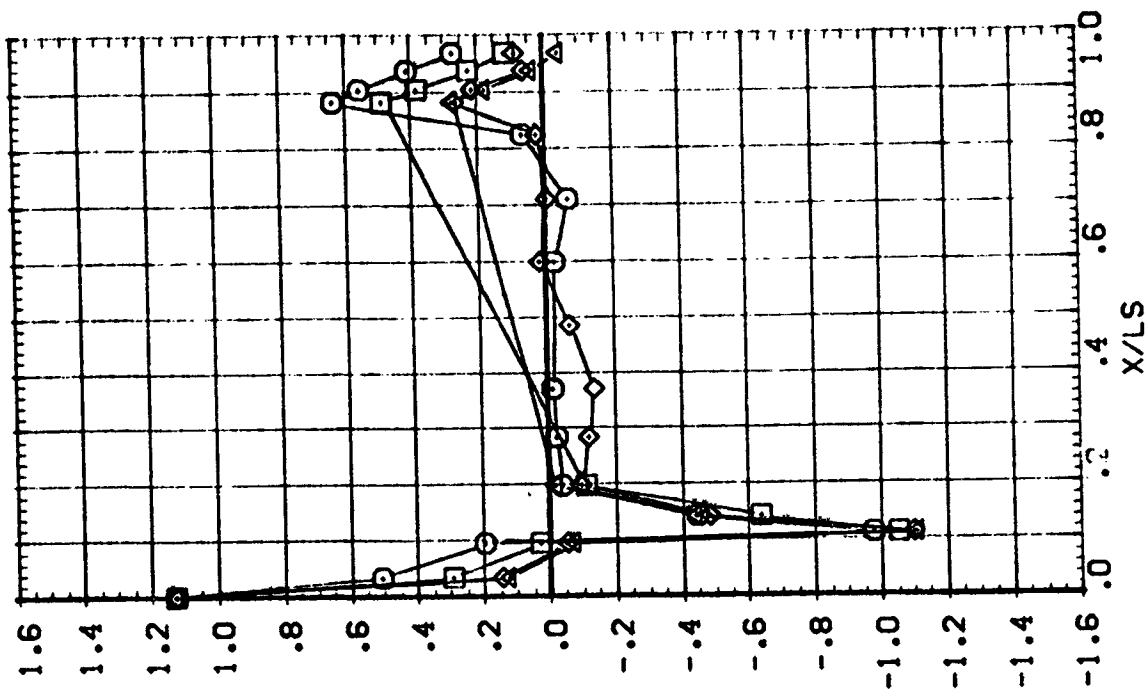
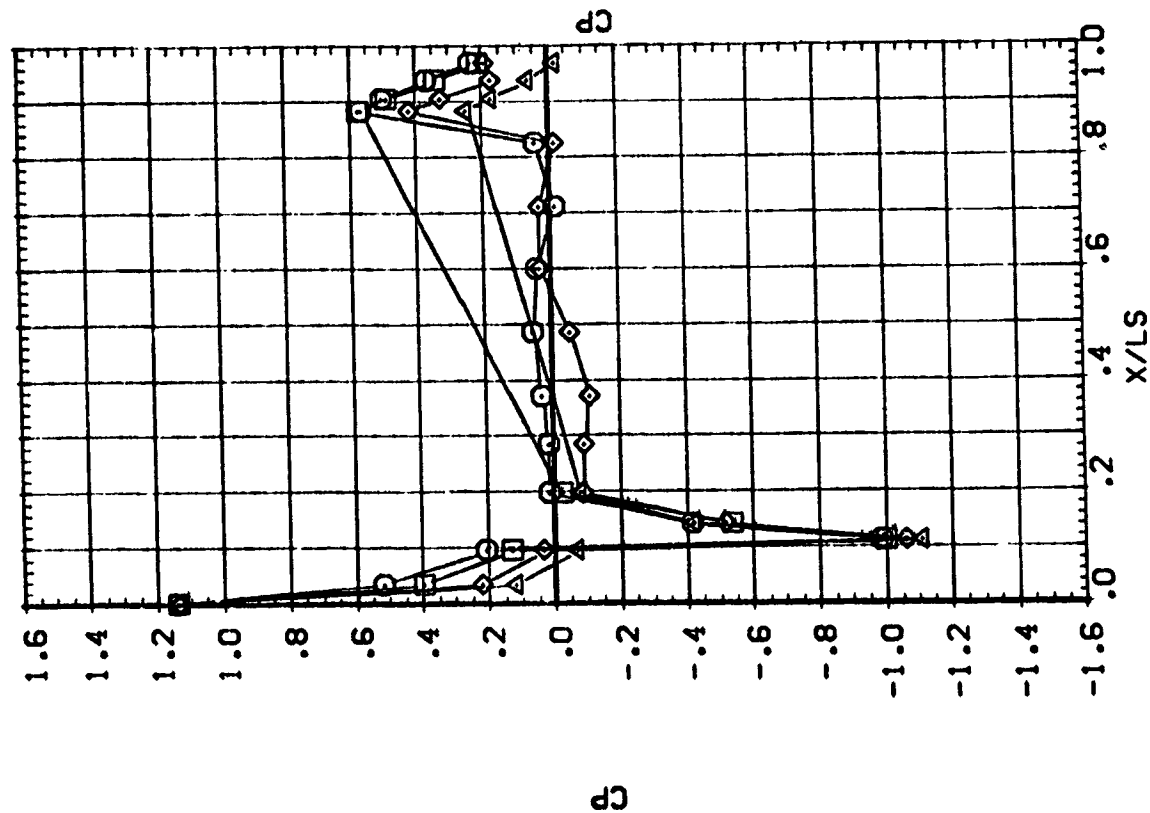
PHI
 .000
 45.000
 90.000
 135.000

BETA
 -4.080
 2.080

MACH

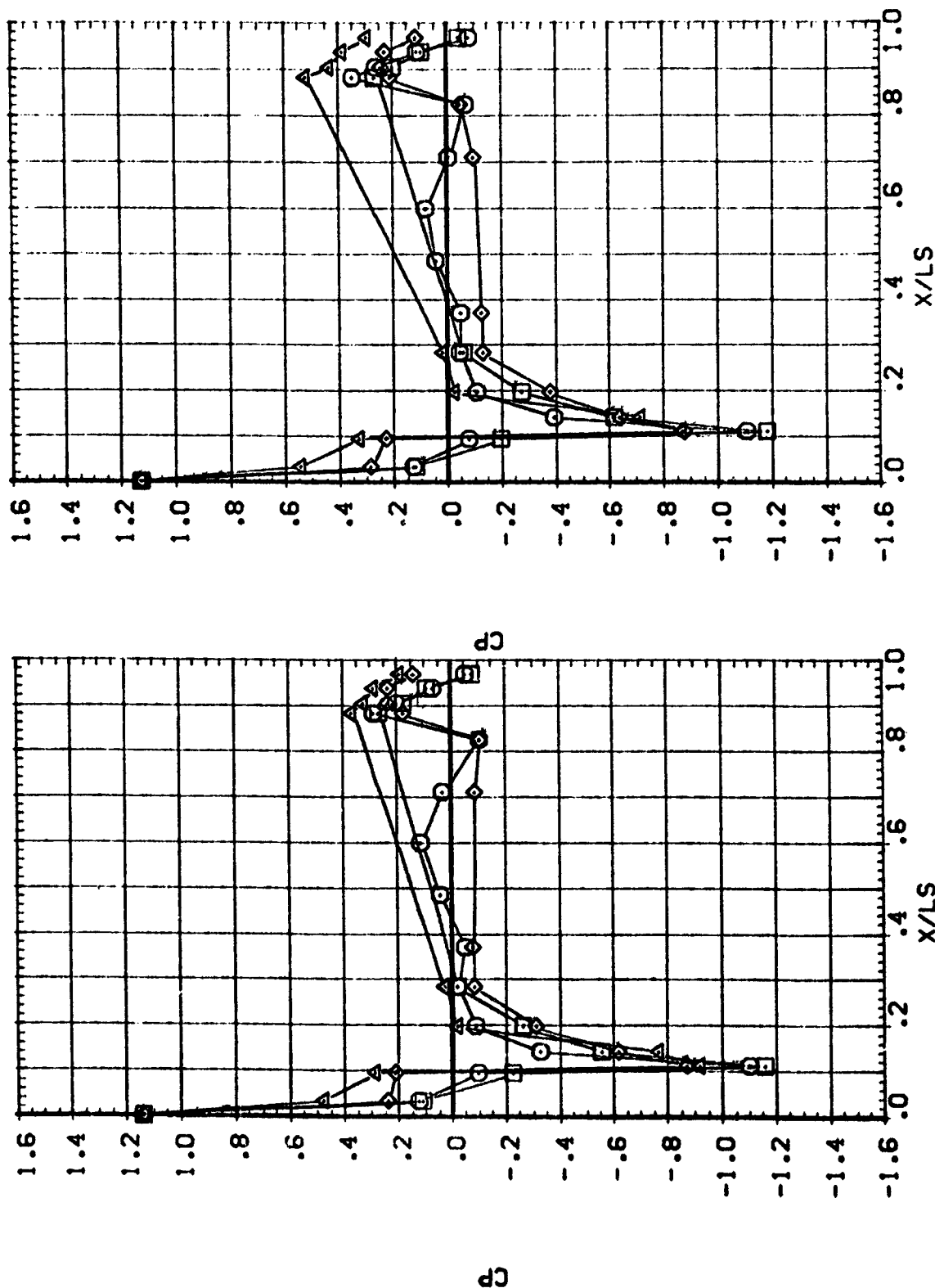
.903

PARAMETRIC VALUES
 ALPHAT 8.000 ORBINC .500
 RUDDER .000 ELEVON .000
 RUOFLR .000



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

SYMBOL	PHI	BETAT	MACH	PARAMETRIC VALUES
○	180.000	-4.060	.903	ALPHAT
□	225.000	2.080		RUDDER
◇	270.000			RUDFLR
△	315.000			DRSINC
				ELEVEN
				.507
				.000
				.000



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES



AMES 11-707 1A9 02A + S3 + T9 SRM BOOSTER

(RBMS11)

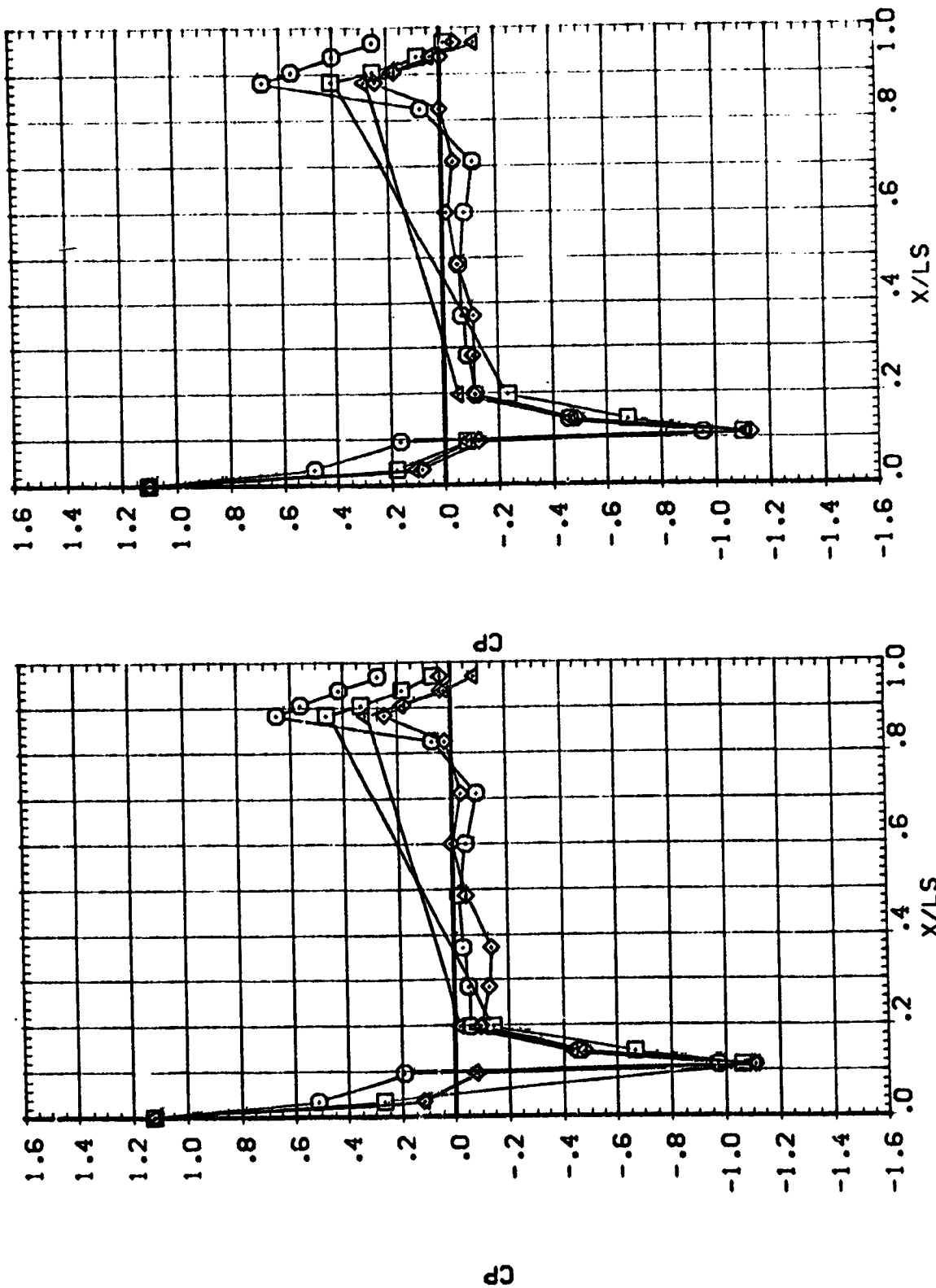
SYMBOL
○ □ ◇ △

PHI .000 .900
45.000 8.280
90.000
135.000

BETAT 4.150
8.280

MACH .900

PARAMETRIC VALUES
ALPHAT 8.000 DRBINC .500
RUDDER .000 ELEVON .000
RUDFLR .000



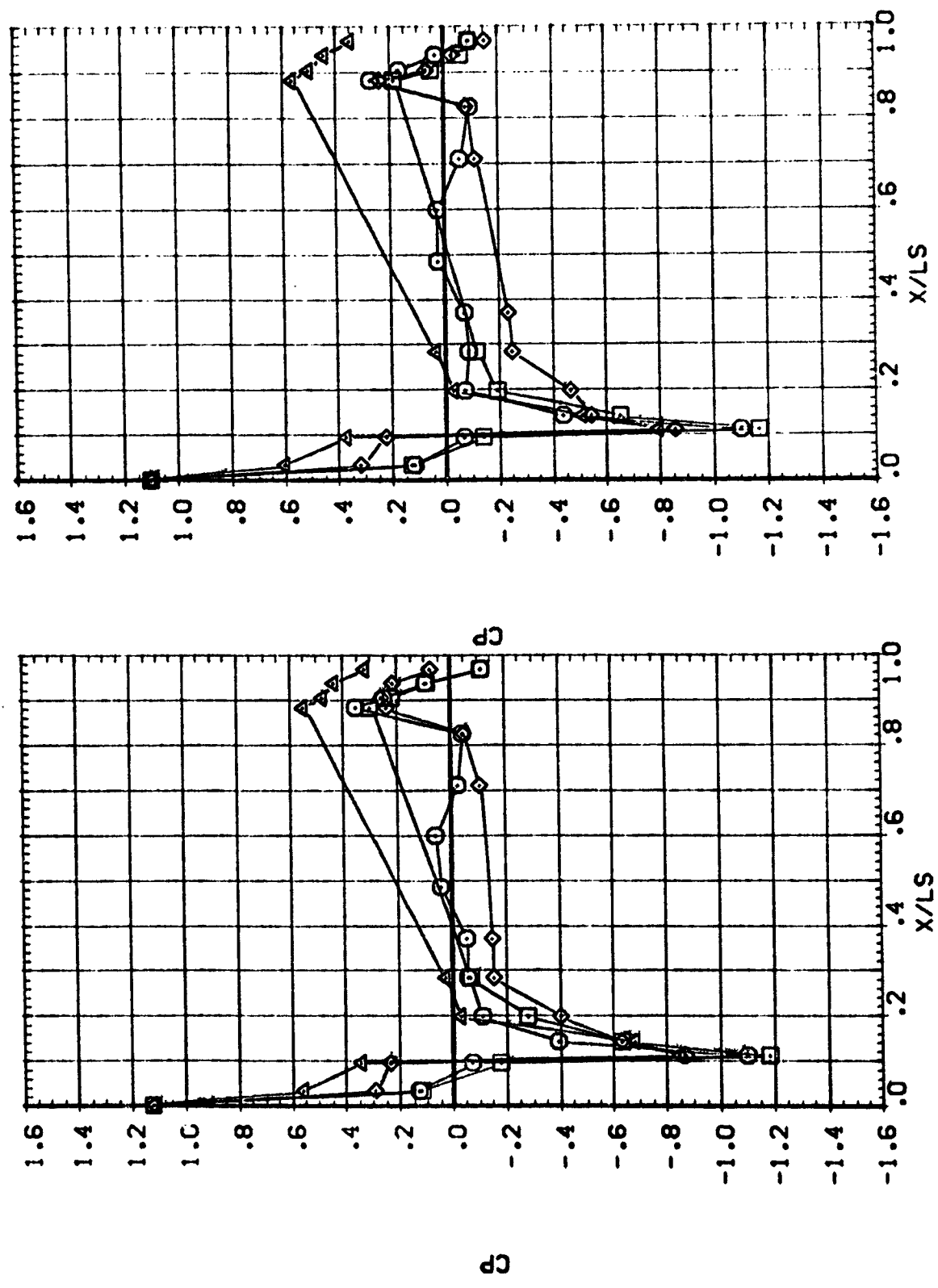
LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES



AMES 11-707 1A9 02A + S3 + T9 SRM BOOSTER

(RBMS11)

SYMBOL	PHI	BETAT	MACH	PARAMETRIC VALUES
○	180.000	4.150	.900	ALPHAT
□	225.000	8.280		RUDER
◇	270.000			RUDFLR
△	315.000			8.000
				ORBITC
				ELEVON
				.500
				.000



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES



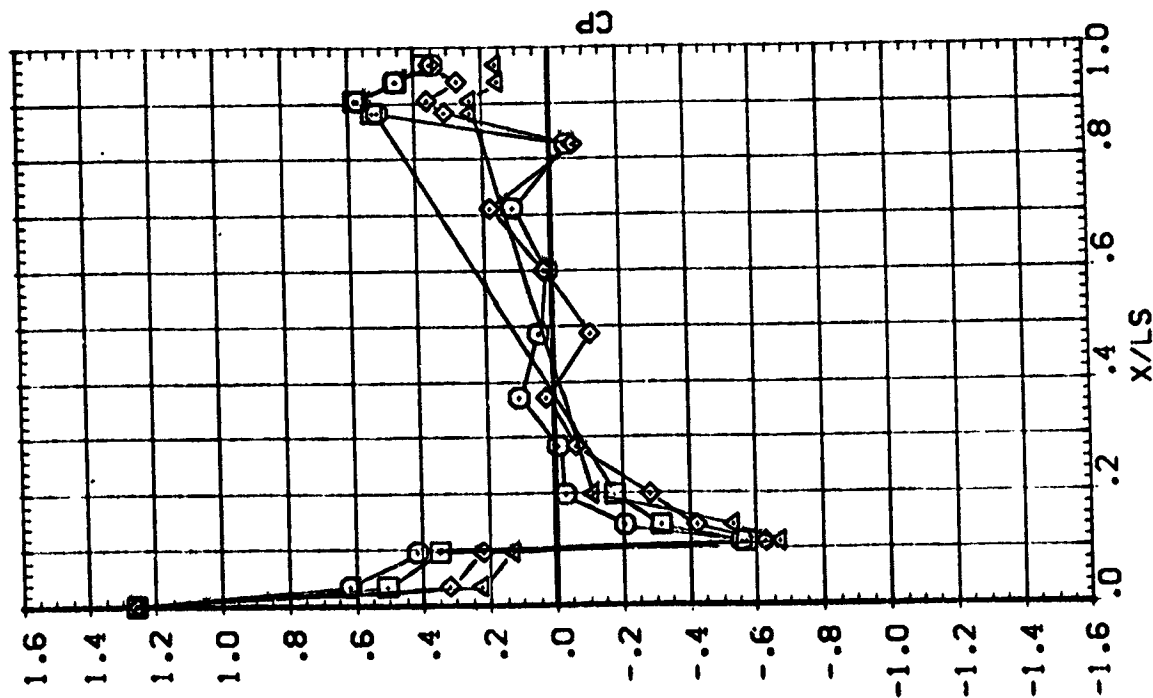
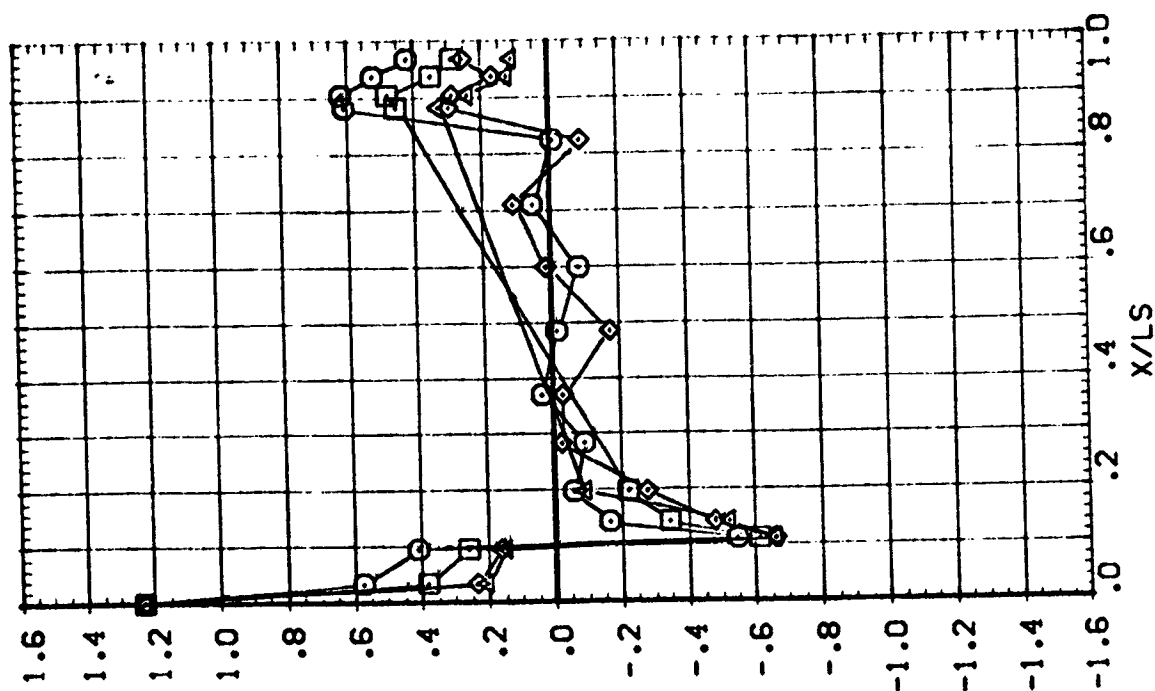
AMES 11-707 1A9 02A + S3 + T9 SRM BOOSTER

(RBMS11)

PARAMETRIC VALUES
ALPHAT 8.000
RUDER .000
RUDFLR .000
ORBITC .500
ELEVON .000

PHI BETA* MACH
.000 -4.070 1.102
45.000
90.000
135.000

SYMBOL
□
◇
△

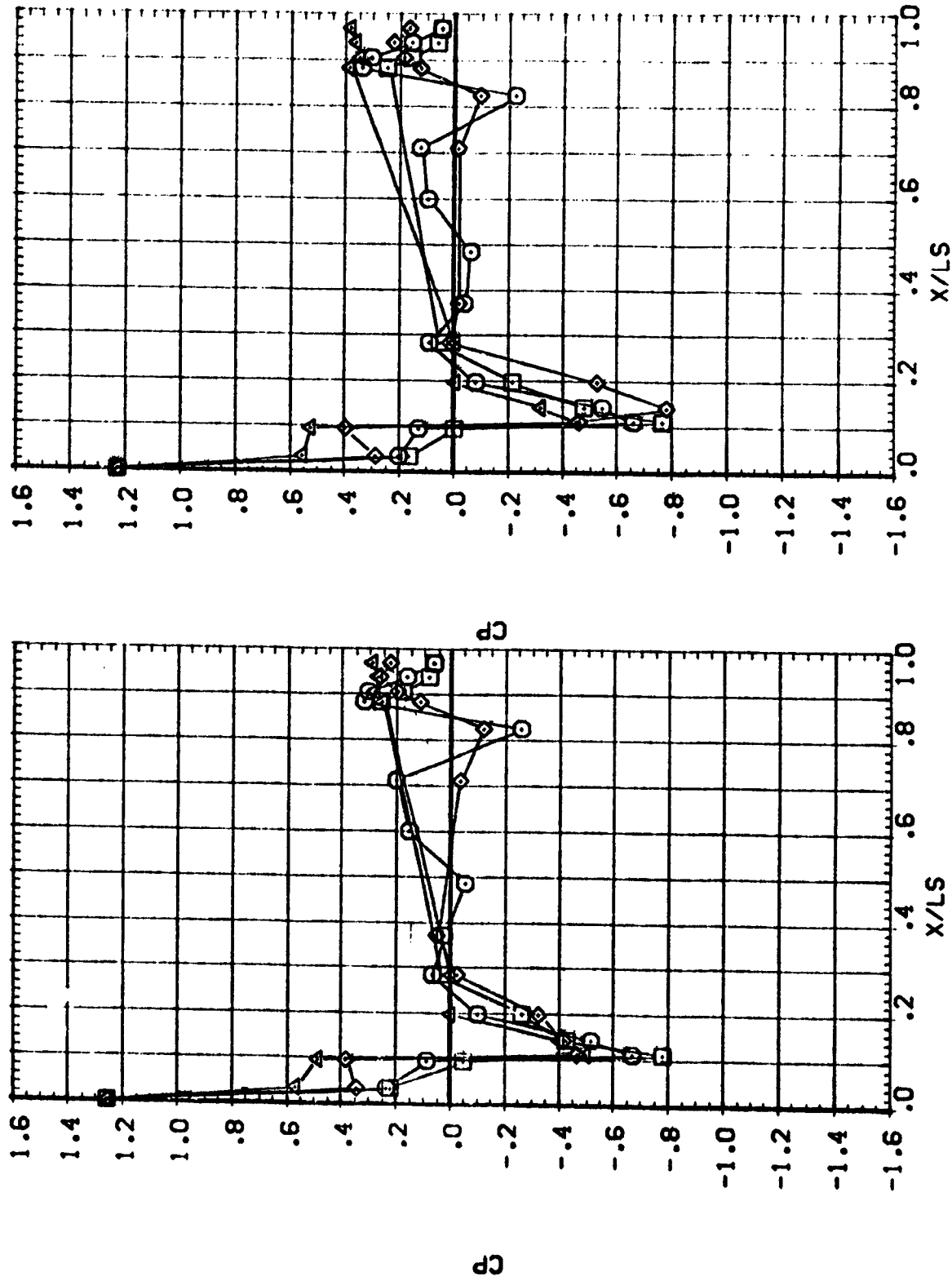


LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

AMES 11-707 1A9 02A + S3 + 19 SRM BOOSTER

(RBMS11)

SYMBOL	PHI	BETAT	MACH	ALPHA	RUDER	RJDFLR	PARAMETRIC VALUES	8.000	0.000	0.000	0.000
○	180.000	-4.070	1.102	ALPHA			8.000	0.000	0.000	0.000	0.000
□	225.000	2.080		RUDER			0.000	0.000	0.000	0.000	0.000
◇	270.000			RJDFLR			0.000	0.000	0.000	0.000	0.000
△	315.000						0.000	0.000	0.000	0.000	0.000



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES



AMES 11-707 1A9 02A + S3 + T9 SRM BOOSTER

(RBMS11)

SYMBOL

○ □ ◇ △

PHI .000
45.000
90.000
135.000

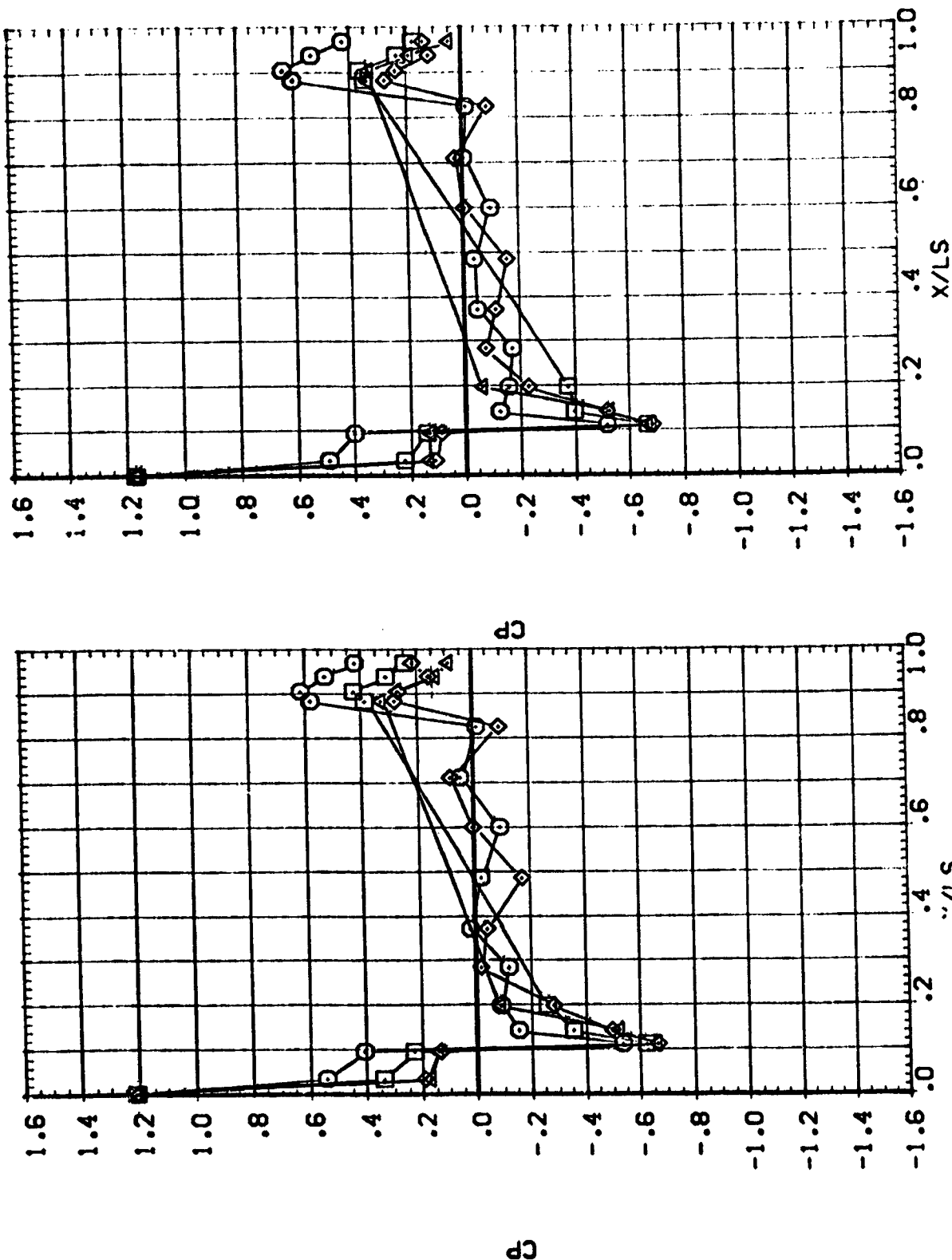
BETAT 4.150
8.300

MACH 1.103

PARAMETRIC VALUES

ALPHAT 8.000
RUDDER .000
RUOFLR .000

CRBINC .500
ELEVON .000



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES



AMES 11-707 1A9 02A + S3 + T9 SRM BOOSTER

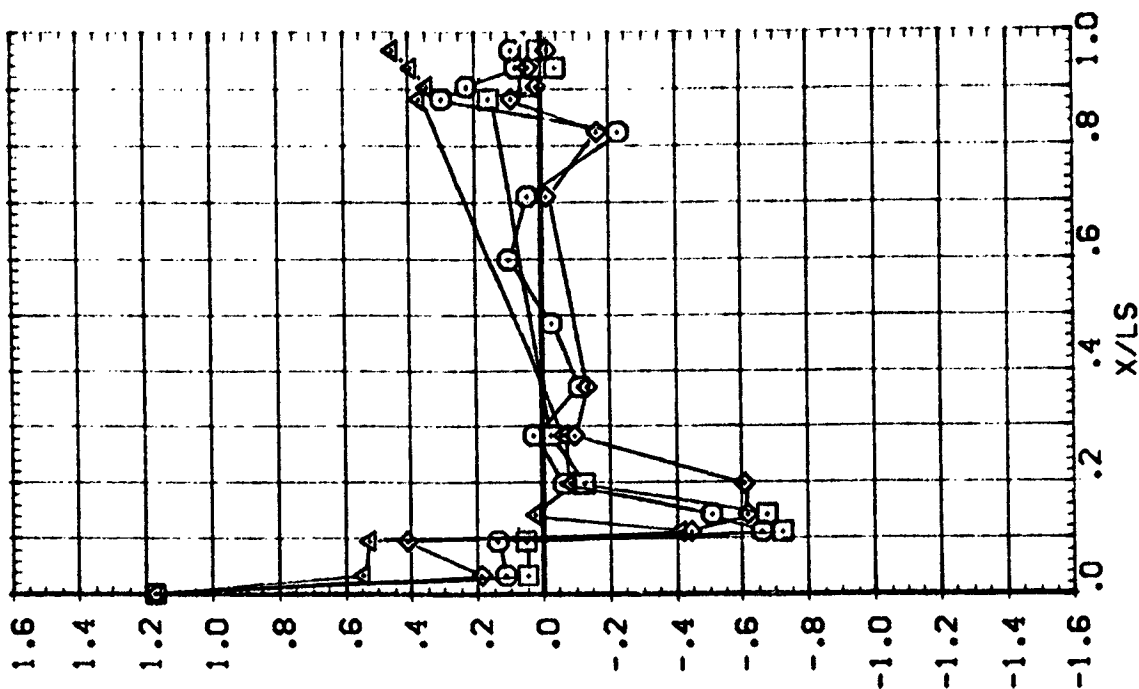
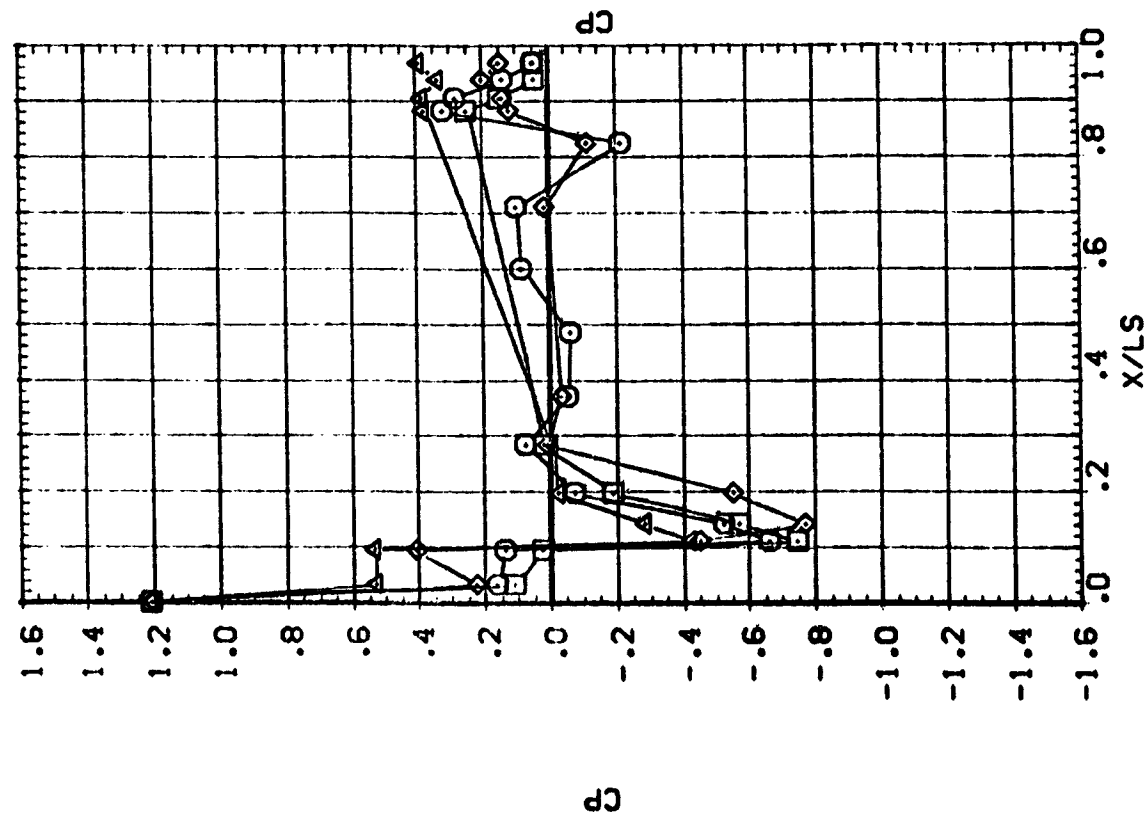
(RBMS:1)

SYMBOL

180.000
225.000
270.000
315.000

BETAT MACH
4.150 1.103
8.300

PARAMETRIC VALUES
ALPHAT 8.000 CRBINC .500
RDOER .000 ELEVN .000
RDOFLR .000



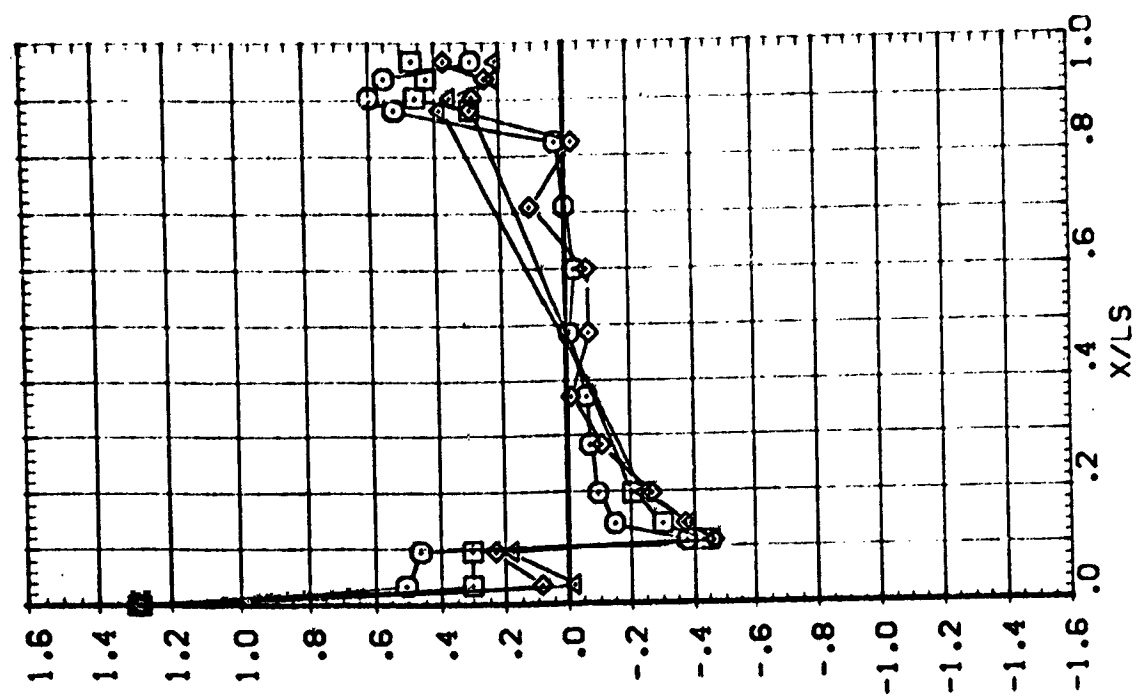
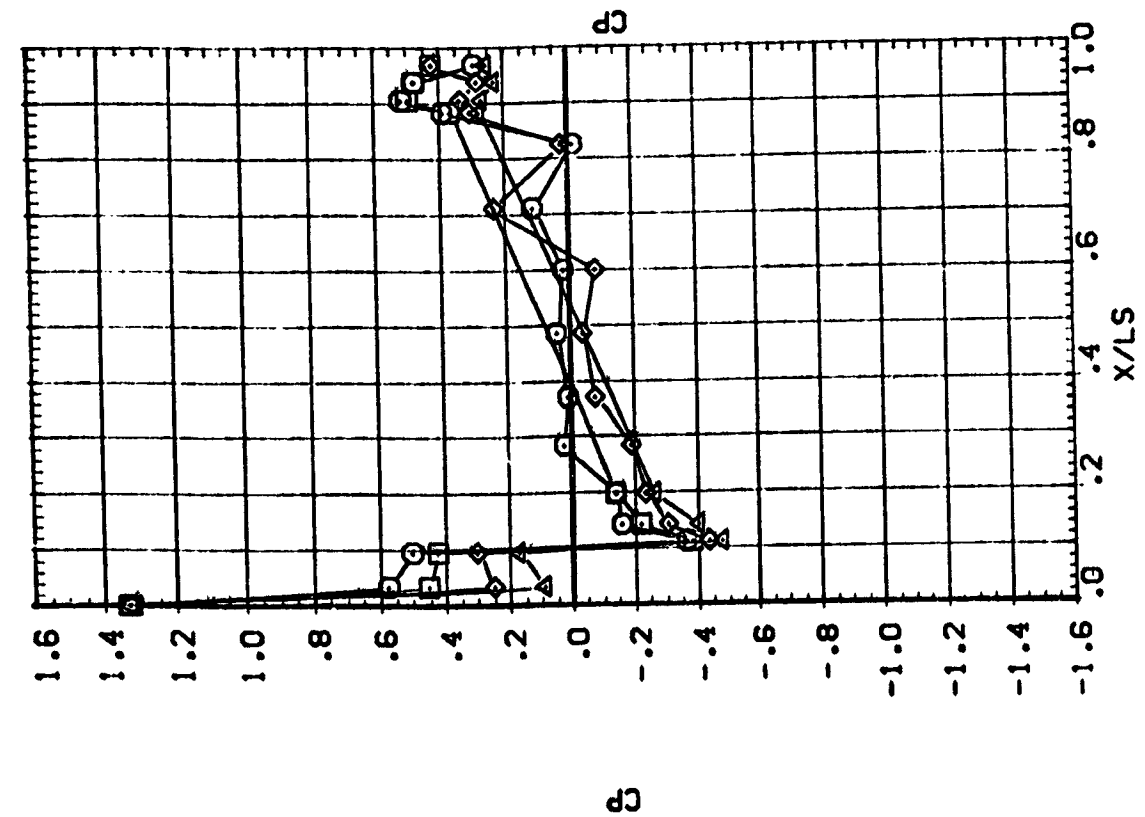
LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES



AMES 11-707 ; J 02A + S3 + T9 SRM BOOSTER

(RBMS11)

SYMBOL	PHI	BETAT	MACH	PARAMETRIC VALUES			
				ALPHAT	RUDDER	RADFLR	
○	.000	-4.040	1.249	8.000	ORBITC	.500	
□	45.000	2.080		.000	ELEVON	.000	
◇	90.000			.000			
△	135.000						





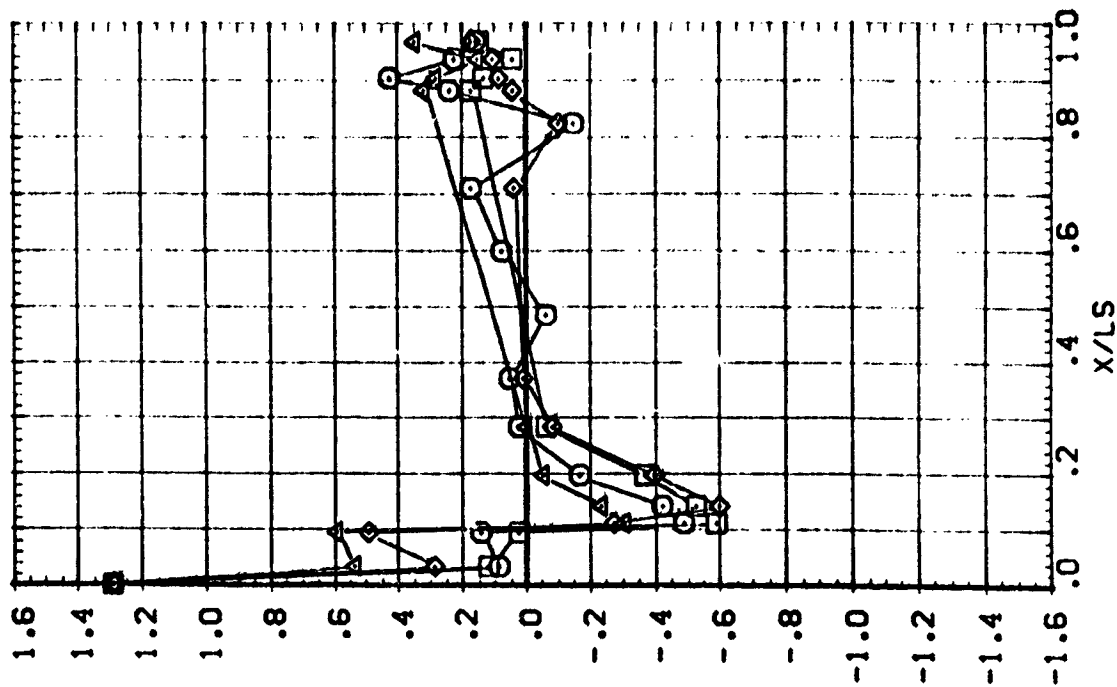
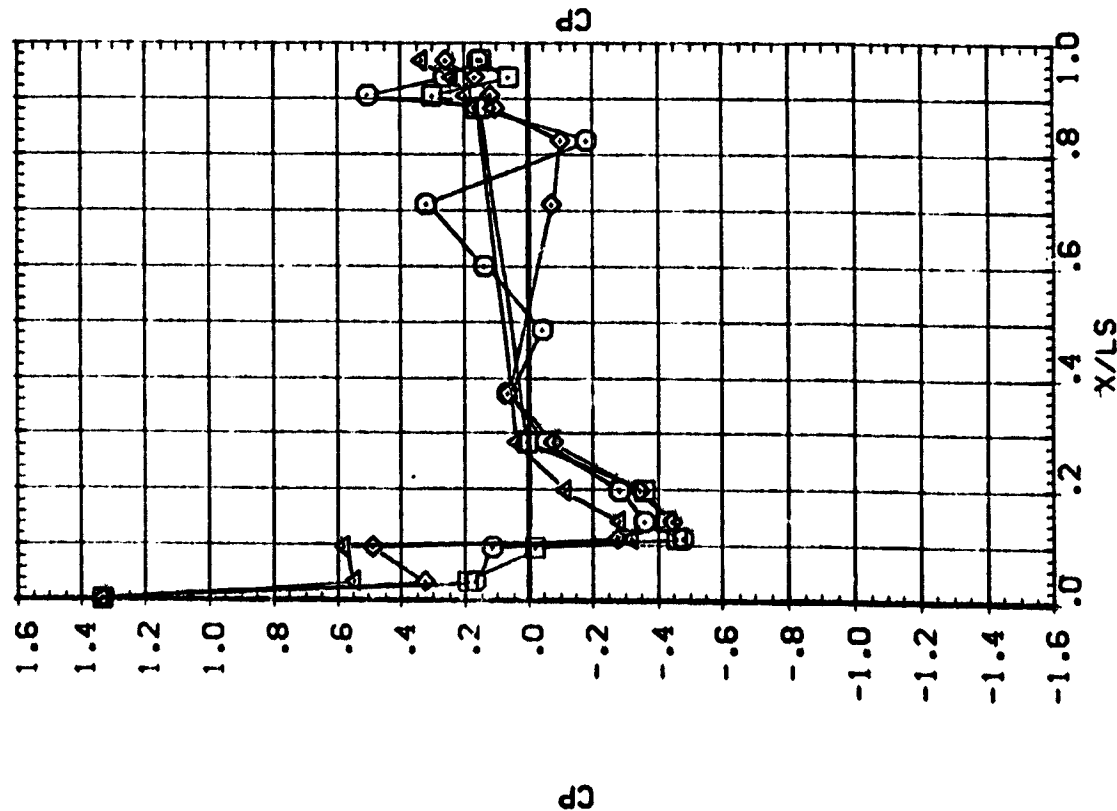
AMES 11-707 1A9 02A + S3 + T9 SRM BOOSTER

(RBMS11)

SYMBOL
 ○ □ ◇ △

P-1 BETAT MACH
 180.000 -4.040 1.249
 225.000
 270.000
 315.000

PARAMETRIC VALUES
 ALPHAT 8.000 ORBINC .500
 RUDDER .000 ELEVON .000
 RUOFLR .000



LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES



AMES 11-707 1A9 02A + S3 + T9 SRM BOOSTER

(REMS11)

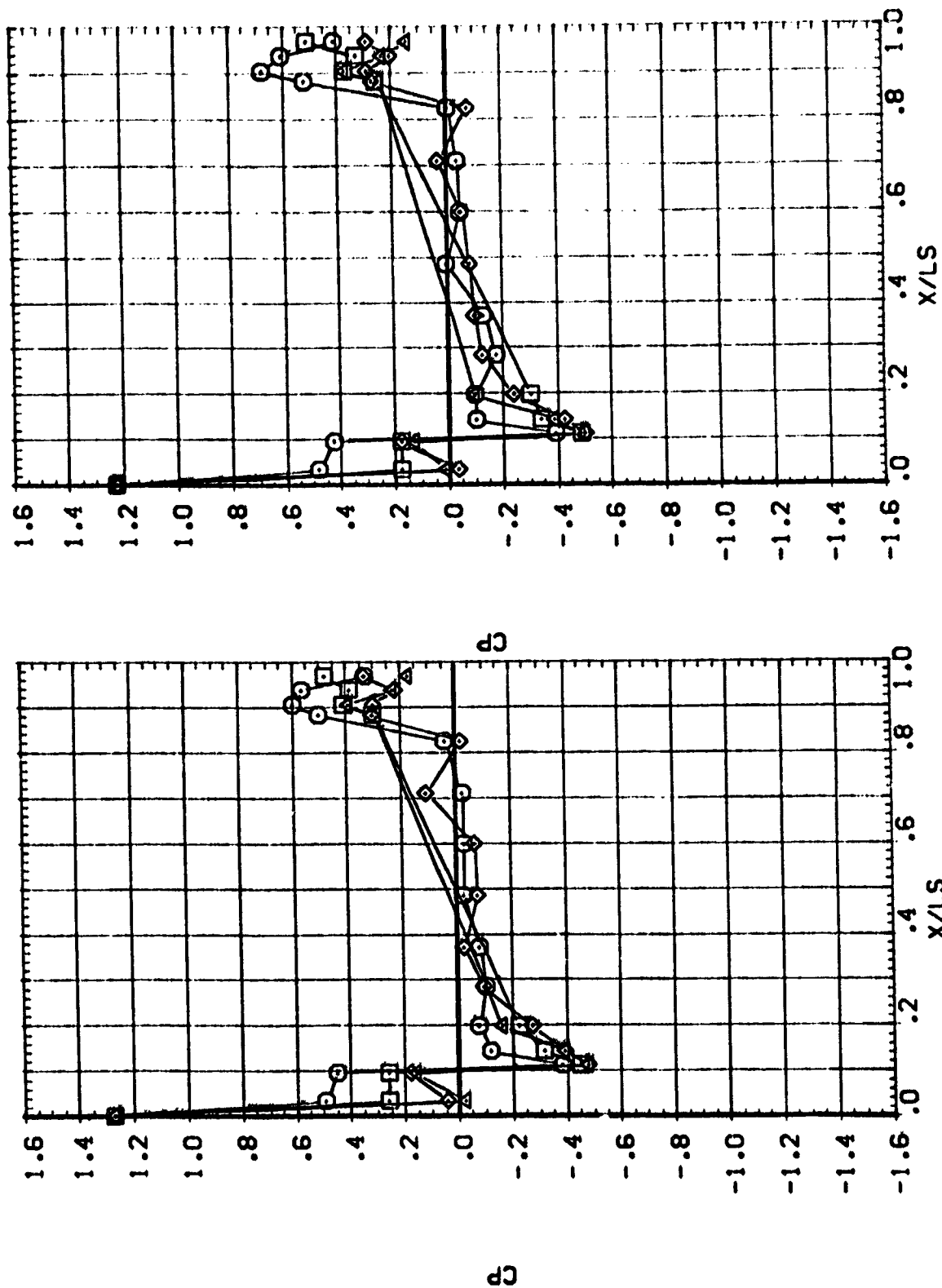
SYMBOL
 ○ □ ◇ △

PHI .000
 45.000
 90.000
 135.000

BETAT 4.130
 8.250

MACH 1.247

PARAMETRIC VALUES
 ALPHAT 8.000
 RUDDER .000
 RUDLR .000
 DRBINC .500
 ELEVEN .000

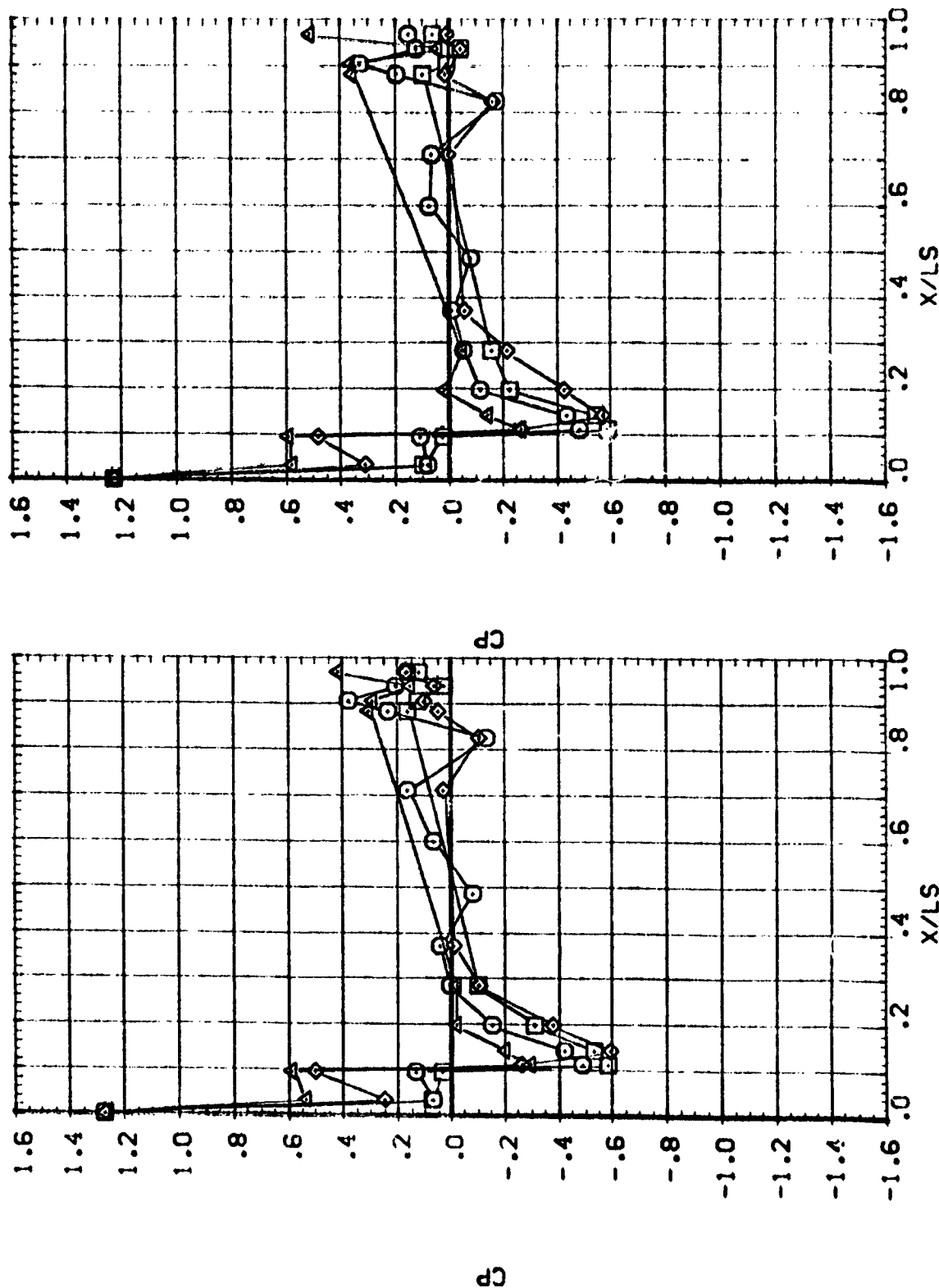


LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

AMES 11-707 1A9 C2A + S3 + T9 SRM BOOSTER (RBMS11)

SYMBOL PH: BETAT MACH
 O 80.000 4.130 1.247
 □ 275.000 8.250
 ◇ 272.000
 △ 315.000

PARAMETRIC VALUES
 ALPHAT 8.000 ORBINC .500
 RUDER .000 ELEVON .000
 RUOFLR .000

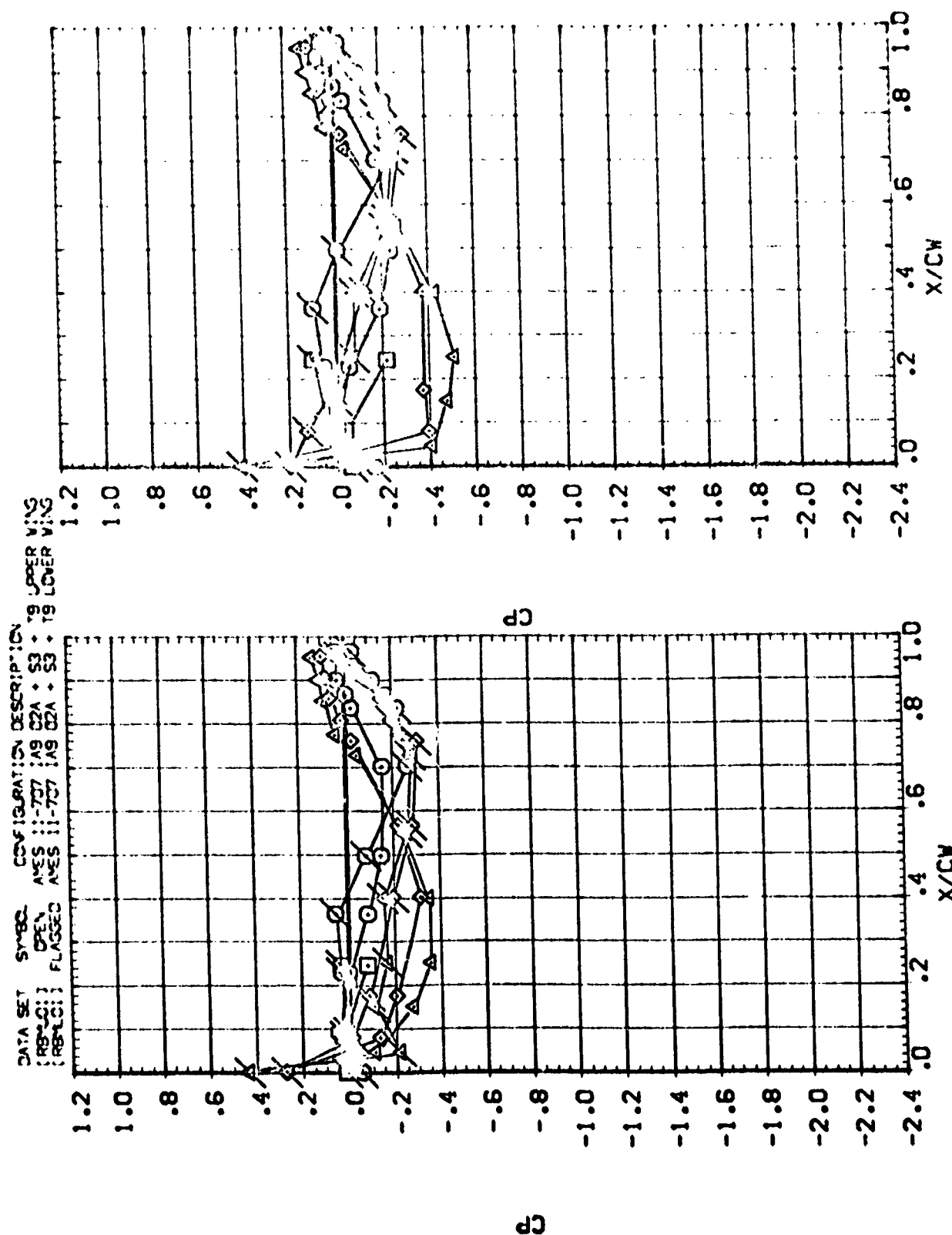


LONGITUDINAL DISTRIBUTION OF SRM BOOSTER PRESSURES

REPRODUCIBILITY OF THE ORIGINAL PAGE IS POOR.

[illegible]

89

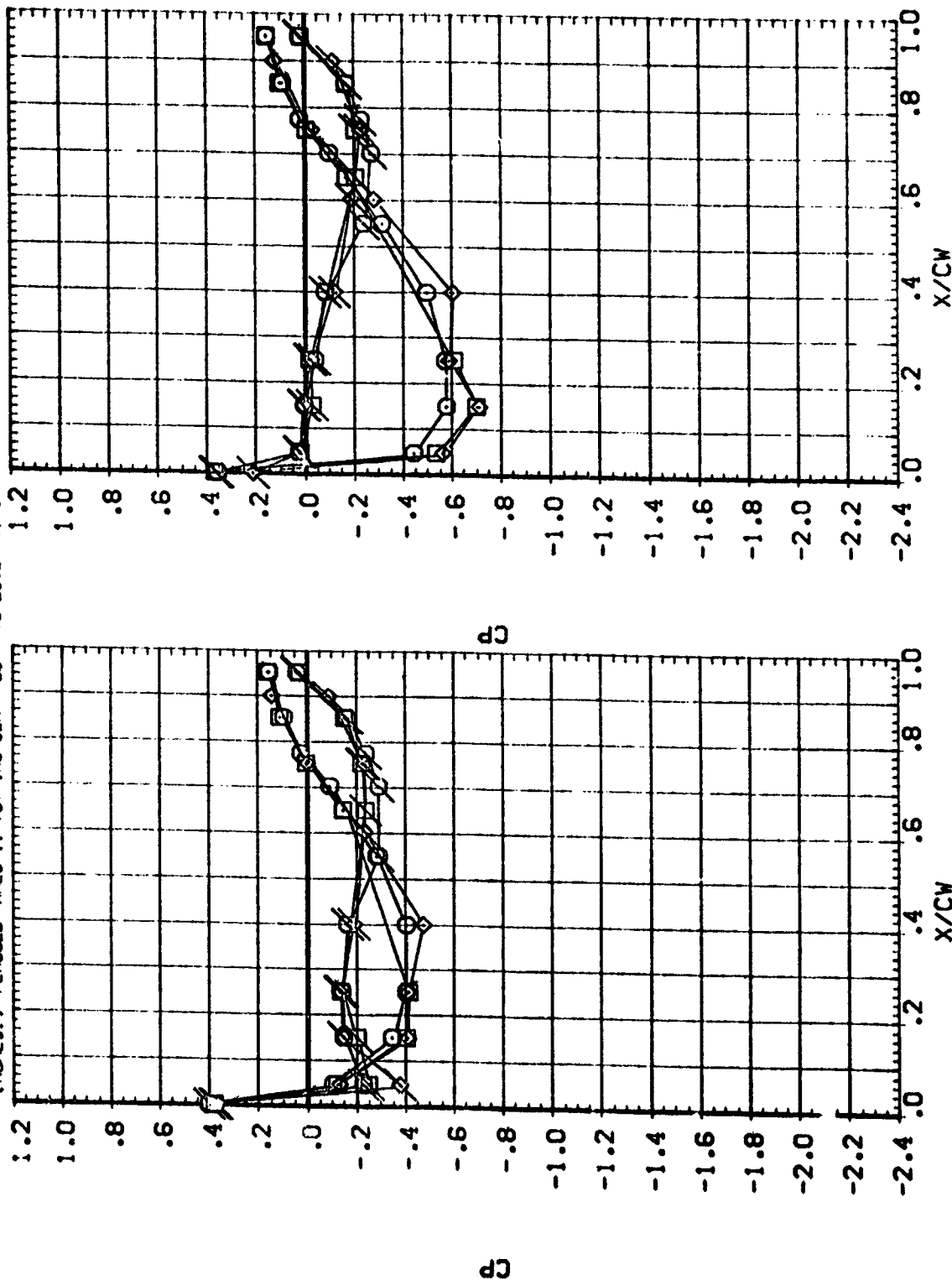


CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

BETAT
RJOJER
RUOFLR

SYMBOL	Y/BN	ALPHAT	NACH
□	.673	-4.100	.60:
◇	.780	-.060	
◇	.887		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
OPEN	AMES 11-7C7 1A9	C2A + S3 + T9 UPPER VING
FLAGGED	AMES 11-7C7 1A9	C2A + S3 + T9 LOWER VING



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

SYMBOL

Y/BN

ALPHAT

MACH

3.930
7.950

.299
.364
.427
.534

.000
.000
.000

.000
.000
.000

.000
.000
.000

.000
.000
.000

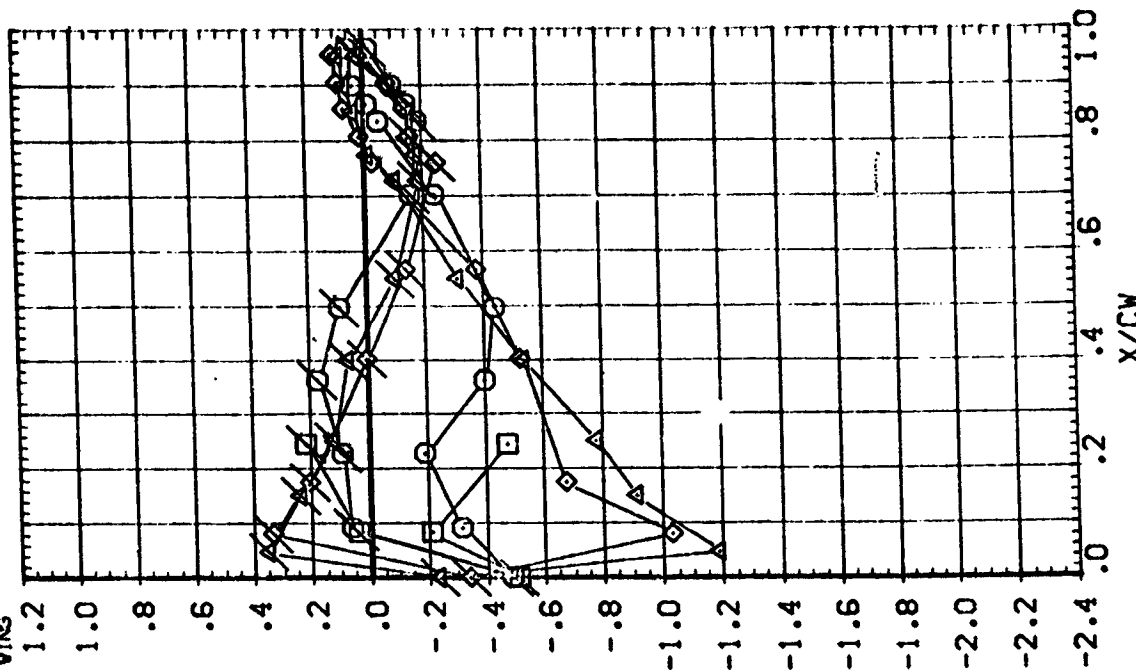
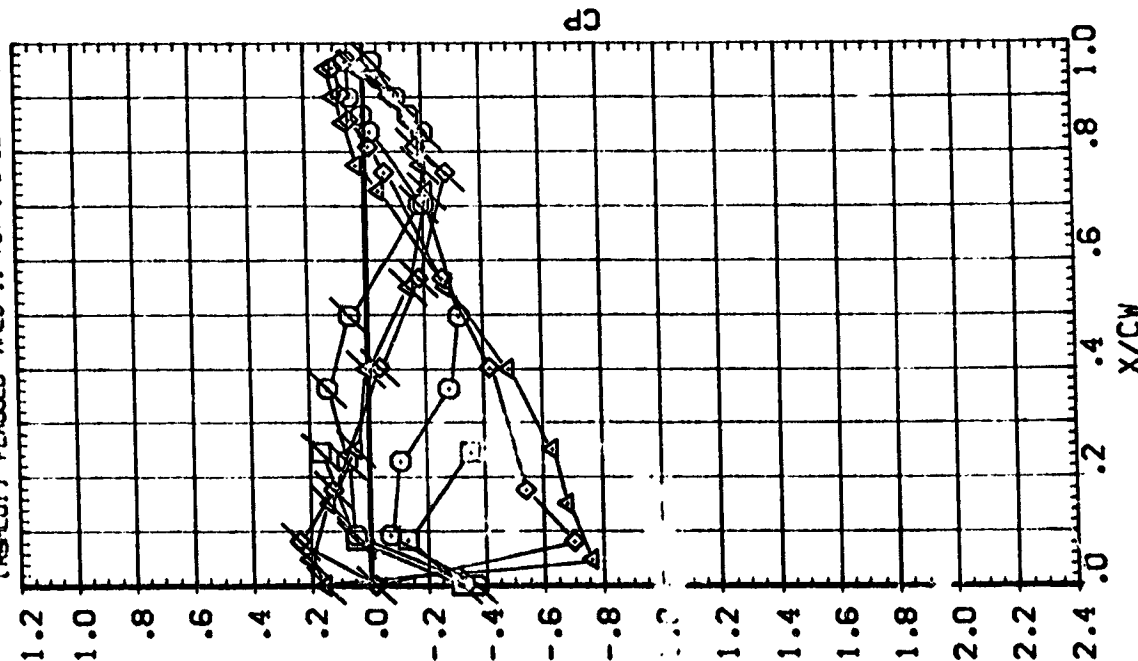
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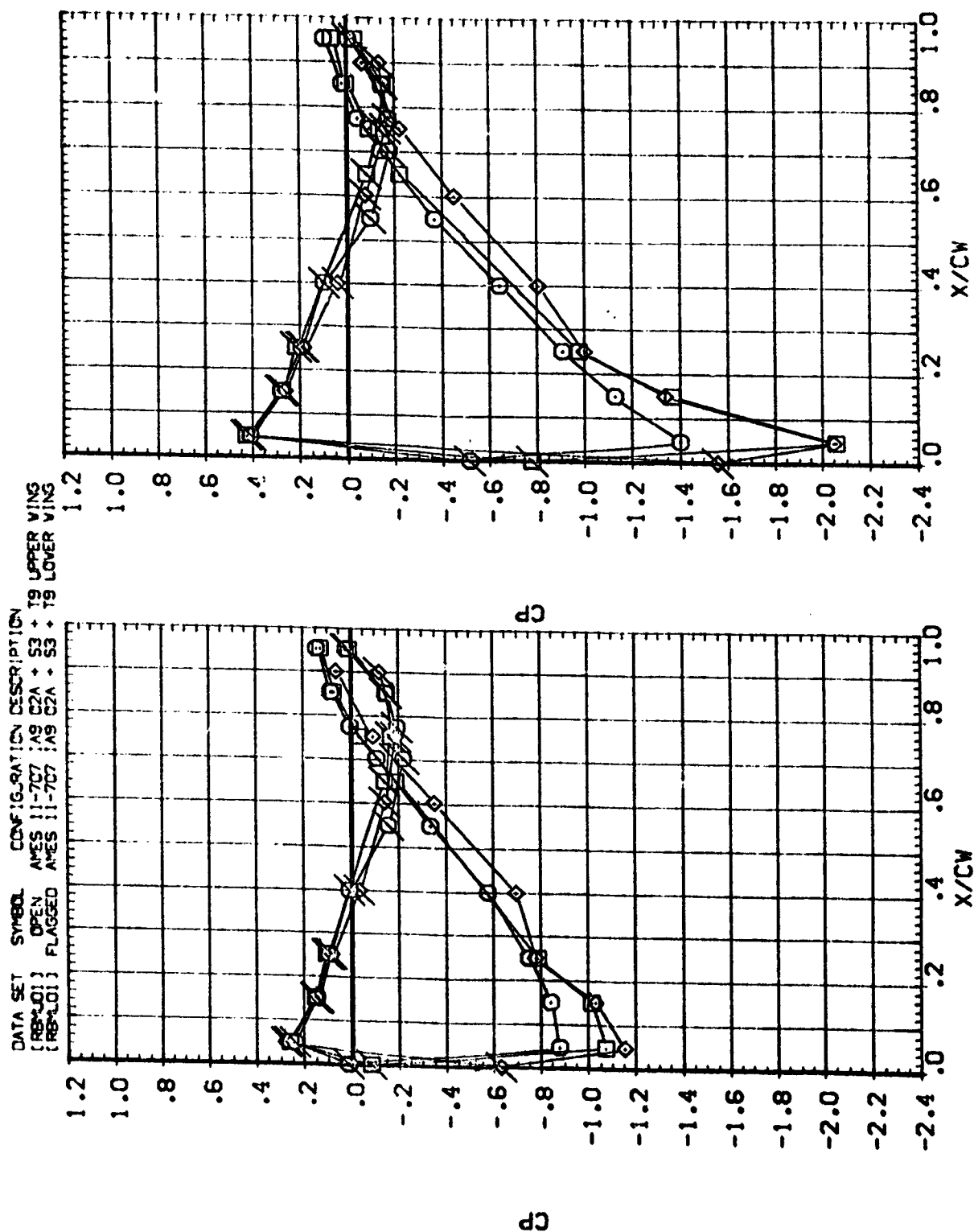
.000
.000
.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(REPL) OPEN APES 11-707 1A9 02A + S3 + T9 UPPER WING
(REPL) FLAGGED APES 11-707 1A9 02A + S3 + T9 LOWER WING



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

ALPHA T	MACH
3.930	.601
7.950	

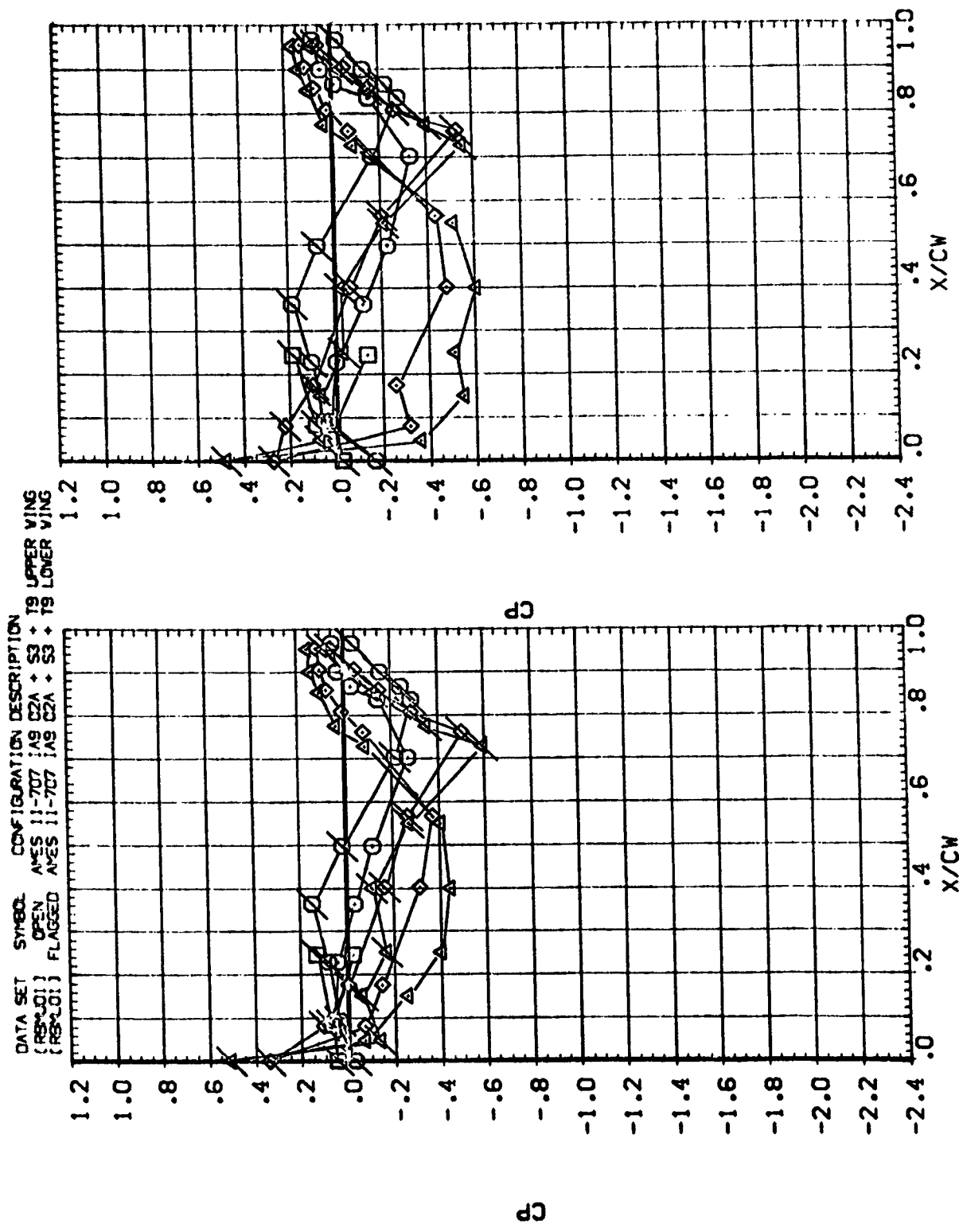


CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

Am-4

PARAMETRIC VALUES
 BETAT .000 CRBINC 1.500
 RUDDER .000 ELEVON .000
 RUOFLR .000

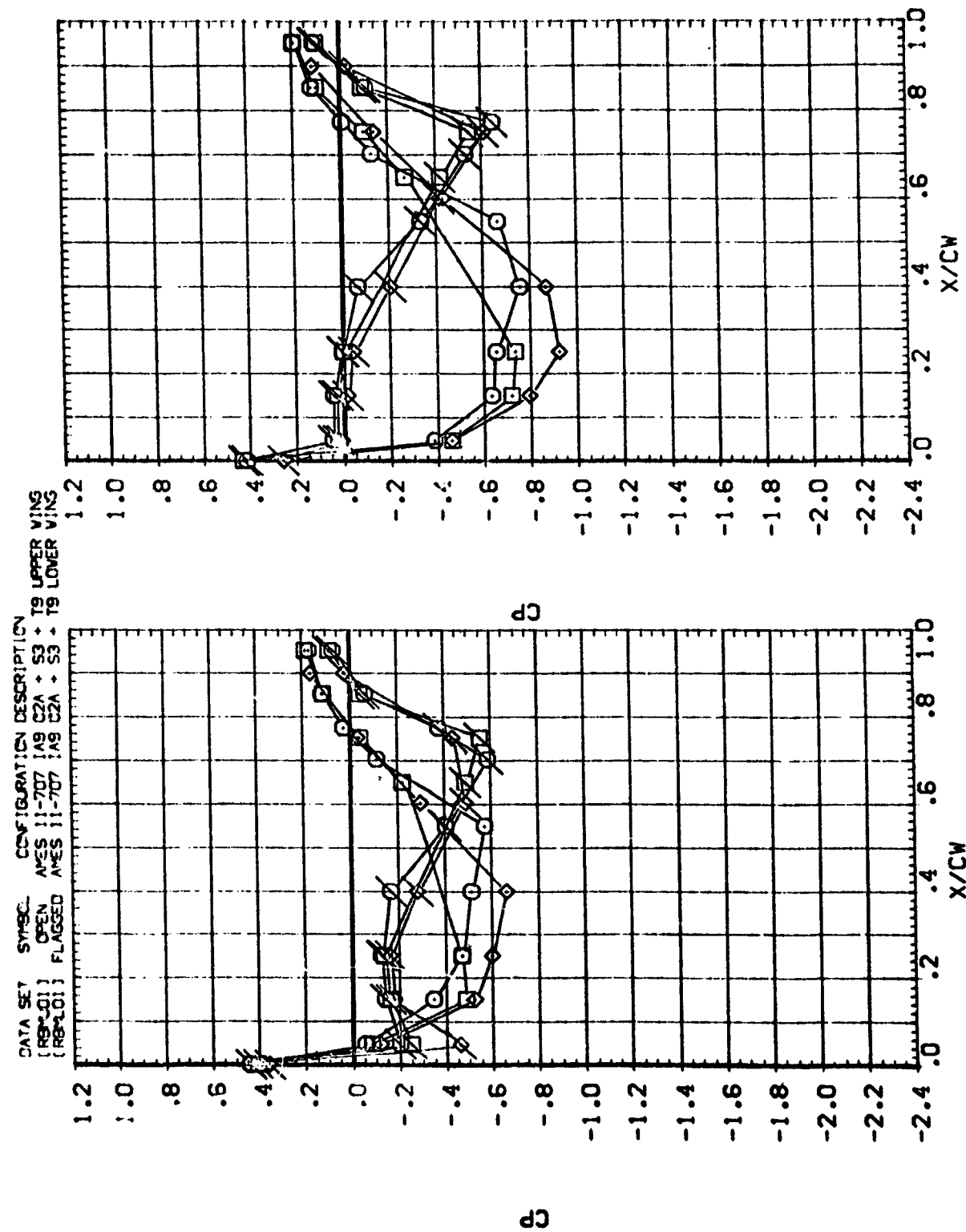
SYMBOL Y/BV ALPHA1 MACH
 .299 -4.000 .905
 .364 .030
 .427
 .534



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

==

SYMBOL	Y/BV	ALPHA	MACH	BETAT	PARAMETRIC VALUES
◇	.673	-4.000	.905	RJODER	.000 ORBINC 1.500
○	.760	.030		RJDFLR	.000 ELEVON .000
◇	.887				



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

PARAMETRIC VALUES

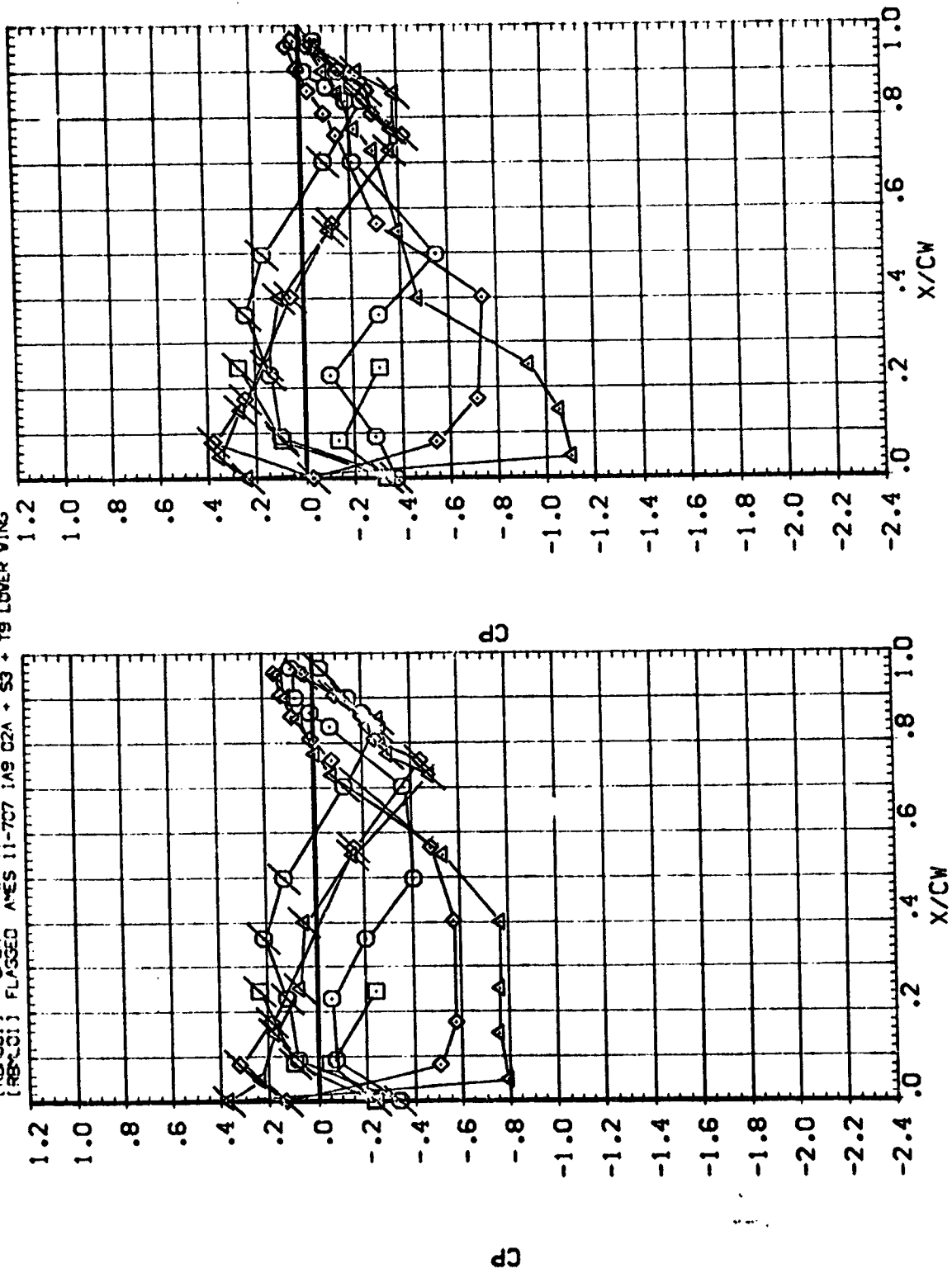
BETAT	.000	ORBNIC	1.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

ALPHA-MACH

Y/BV	ALPHA	MACH
.299	4.030	.905
.364	8.030	
.427		
.534		

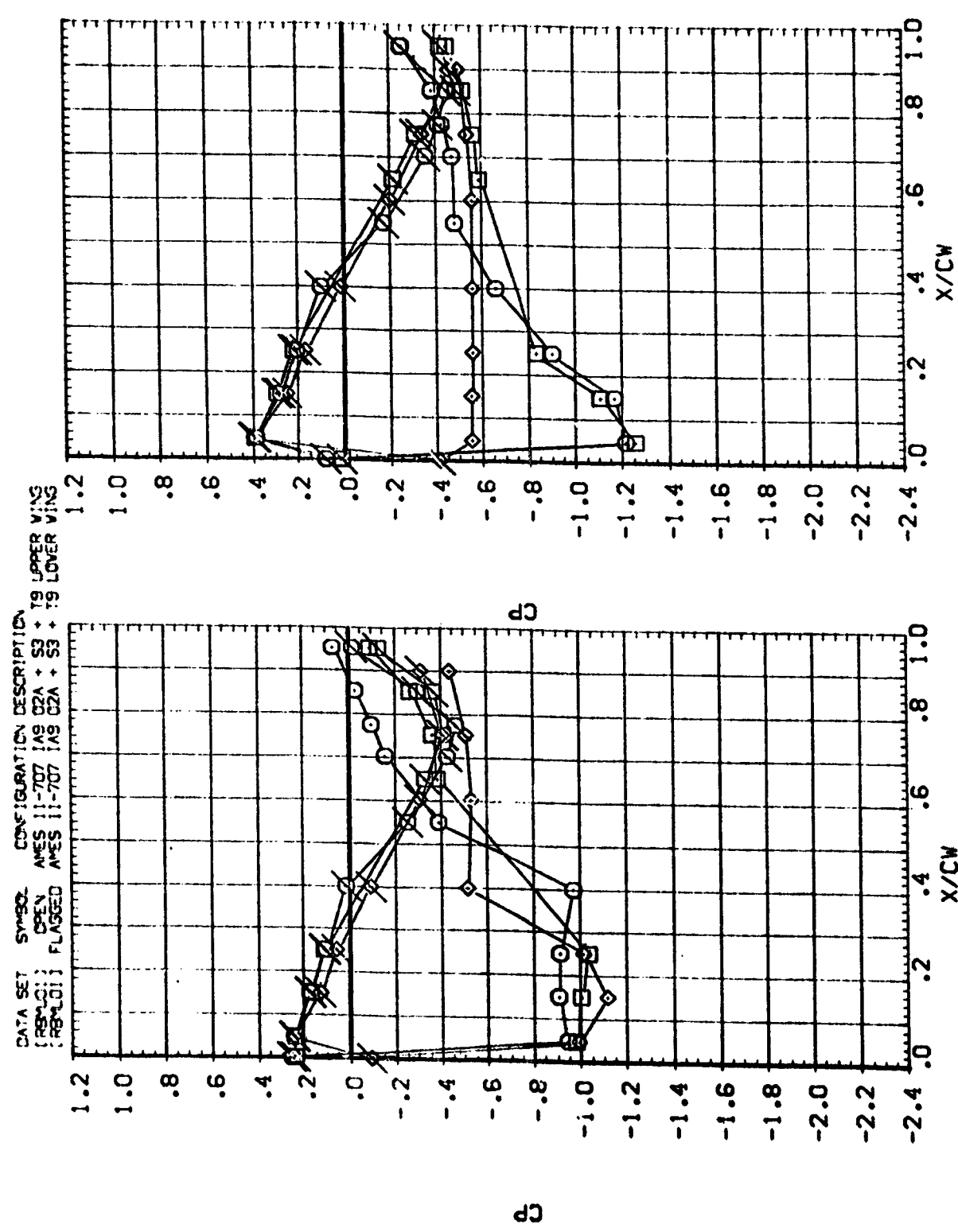
DATA SET SYMBOL CONFIGURATION DESCRIPTION

[RBL01]	OPEN	ANES 11-707	AS 02A + S3 + T9 UPPER WING
[RBL01]	FLASSED	ANES 11-707	AS 02A + S3 + T9 LOWER WING



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

SYMBOL	Y/BV	ALPHAT	MACH	BETAT	PARAMETRIC VALUES
□	.673	4.030	.905	RUDER	.000 ORBINC 1.500
○	.780	8.030		RJFLR	.000 ELEVON .000
◇	.887				



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

SYMBOL

V/BV
.299
.364
.427
.534

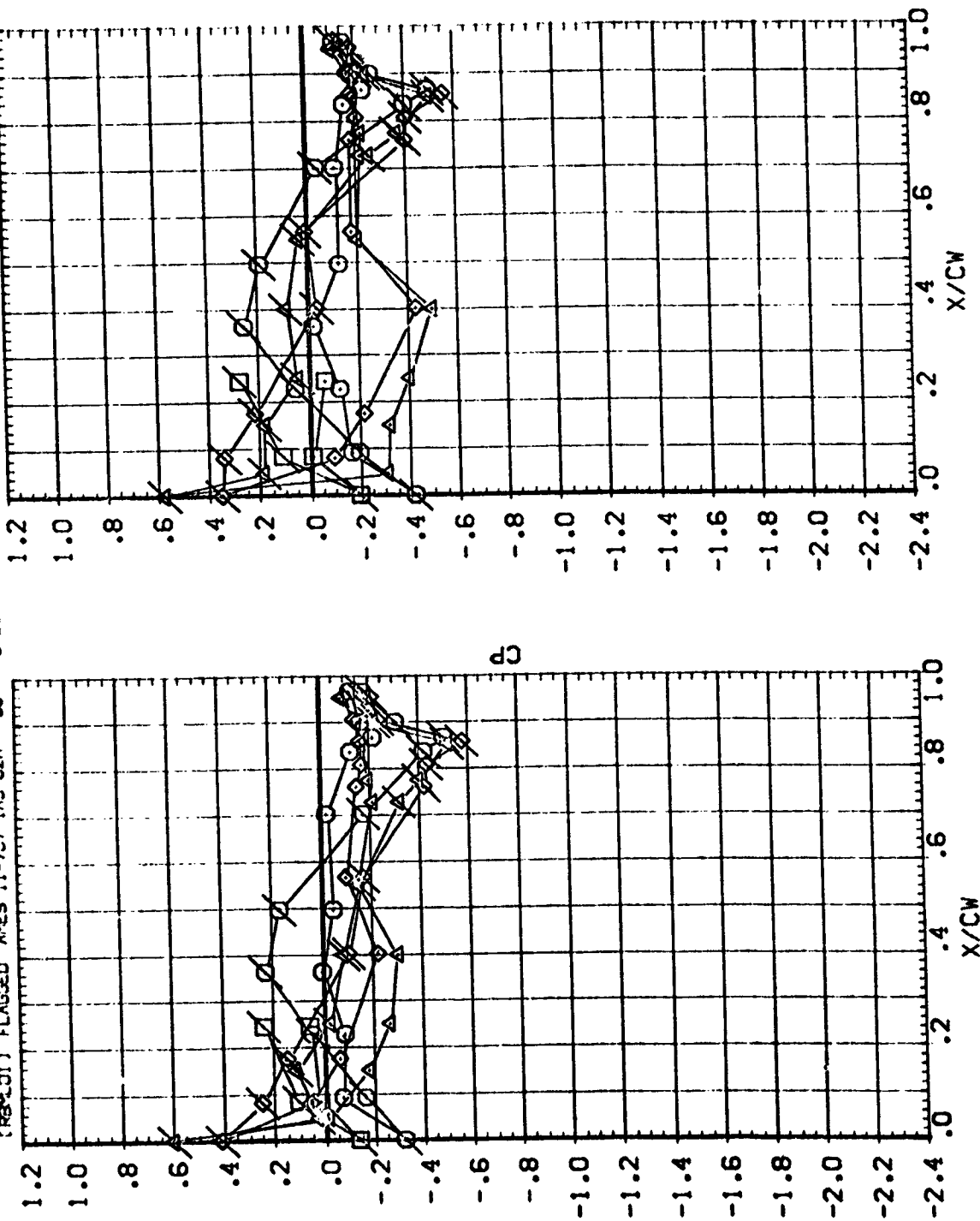
ALPHA
-3.98C
.03C

MACH
1.104

PARAMETRIC VALUES

BETAT
RUDGER
RUDFLR
.000
.000
.000
ORBITC
ELEVON
1.500
.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
[RBNLQ1] OPEN ASES 11-707 :A9 C2A + S3 + T9 UPPER WING
[RBNLQ1] FLAGGED ASES 11-707 :A9 C2A + S3 + T9 LOWER WING



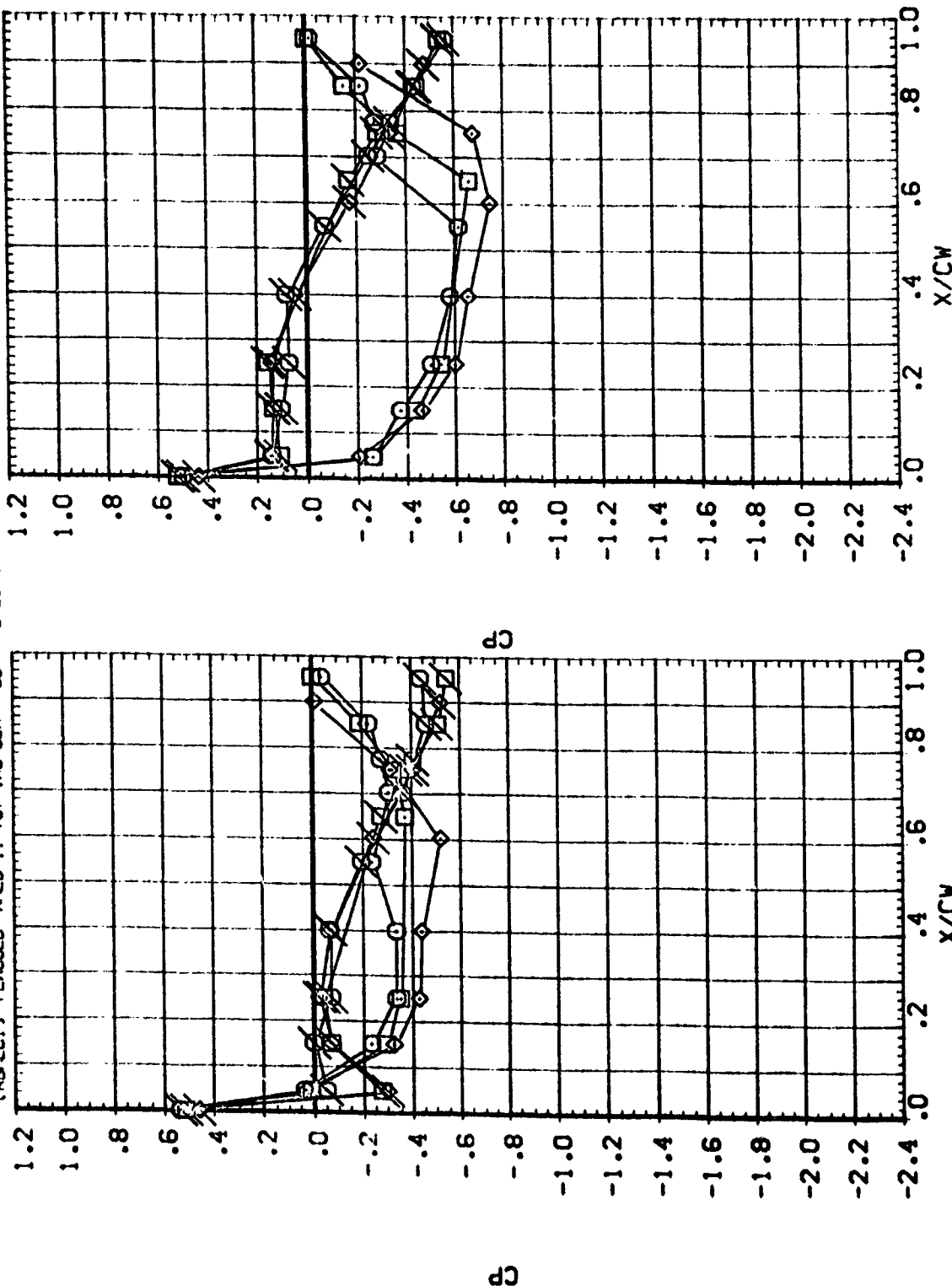
CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

PARAMETRIC VALUES
 .000 ORBINC 1.500
 .000 ELEVON .000
 .000

BETAT
 RUDDER
 RJOFLR

SYMBOL V/BV ALPHAT MACH
 -3.980 1.104
 .673
 .780
 .030
 .887

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RB-LOI) OPEN ANES 11-707 AS O2A + S3 + T8 UPPER WING
 (RB-LOI) FLAGGED ANES 11-707 AS O2A + S3 + T8 LOWER WING



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

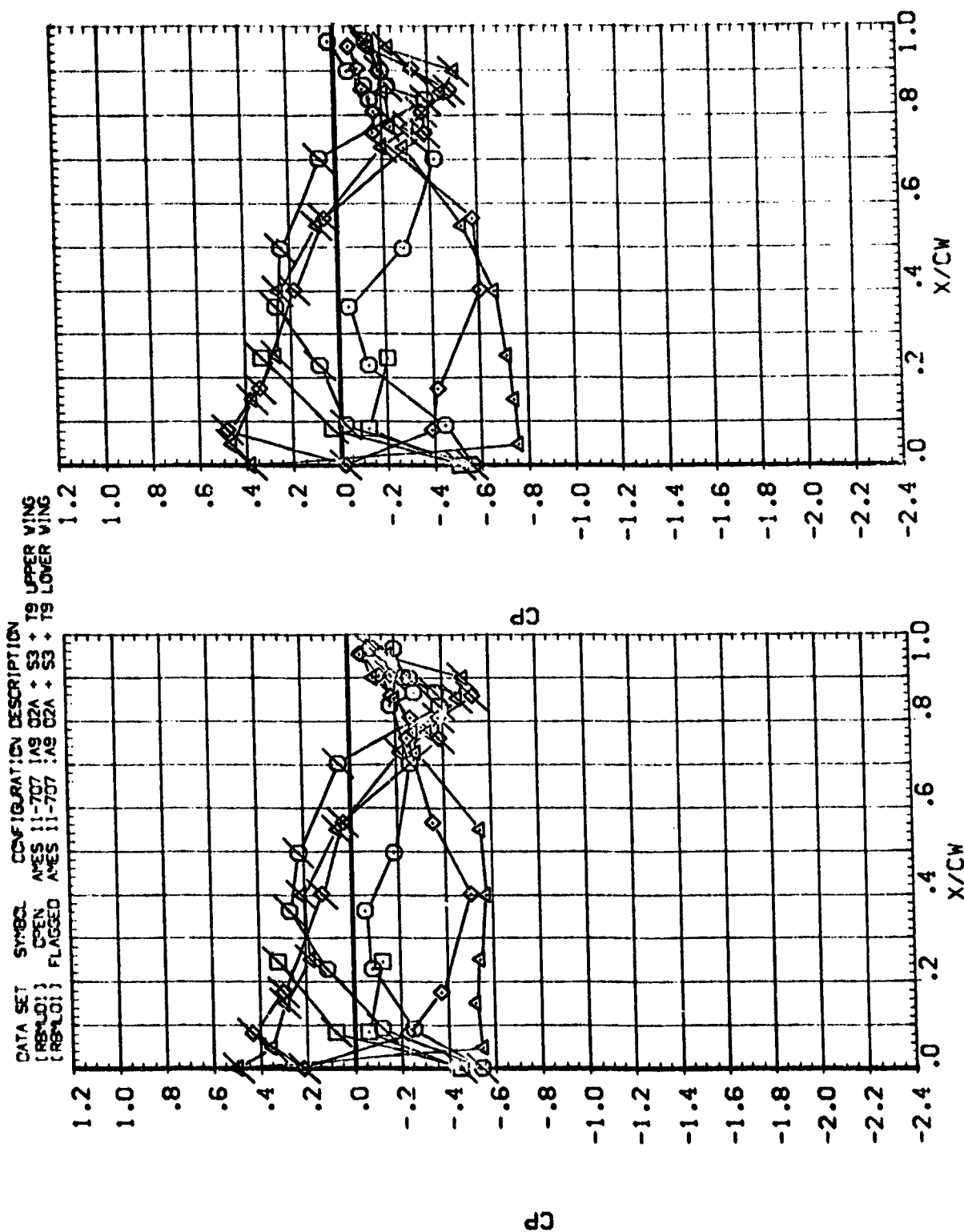
SYMBOL
O L I \square Δ

Y/BV
.299
.364
.427
.534

ALPHAT
4.020
7.980

MACH
1.104

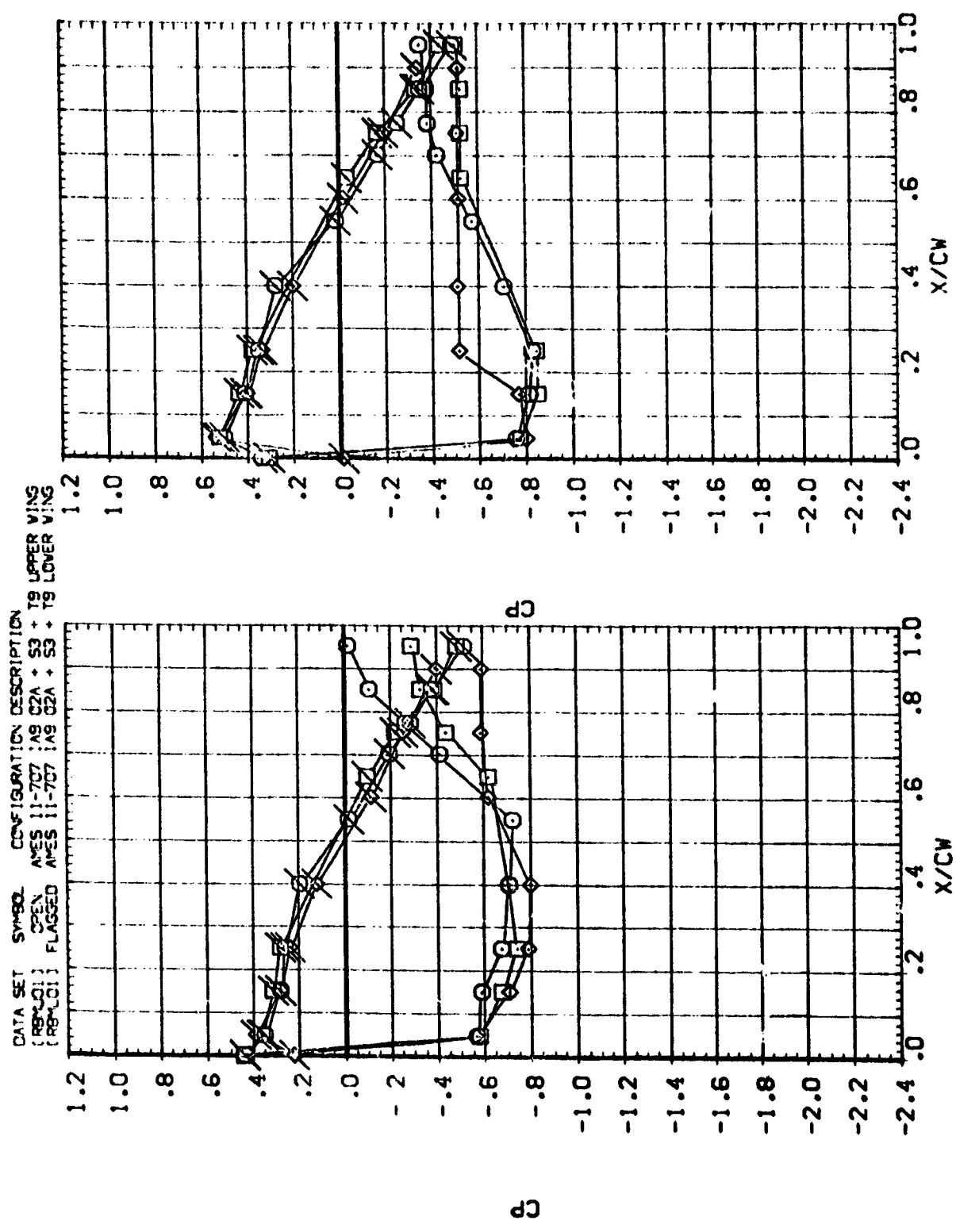
PARAMETRIC VALUES
BETAT .000 ORBINC 1.500
RUDDER .000 ELEVON .000
RUOFLR .000



==

SYMBOL Y/BV ALPHAT MACH
 O .673 4.020 1.104
 I .780 7.980
 D .887

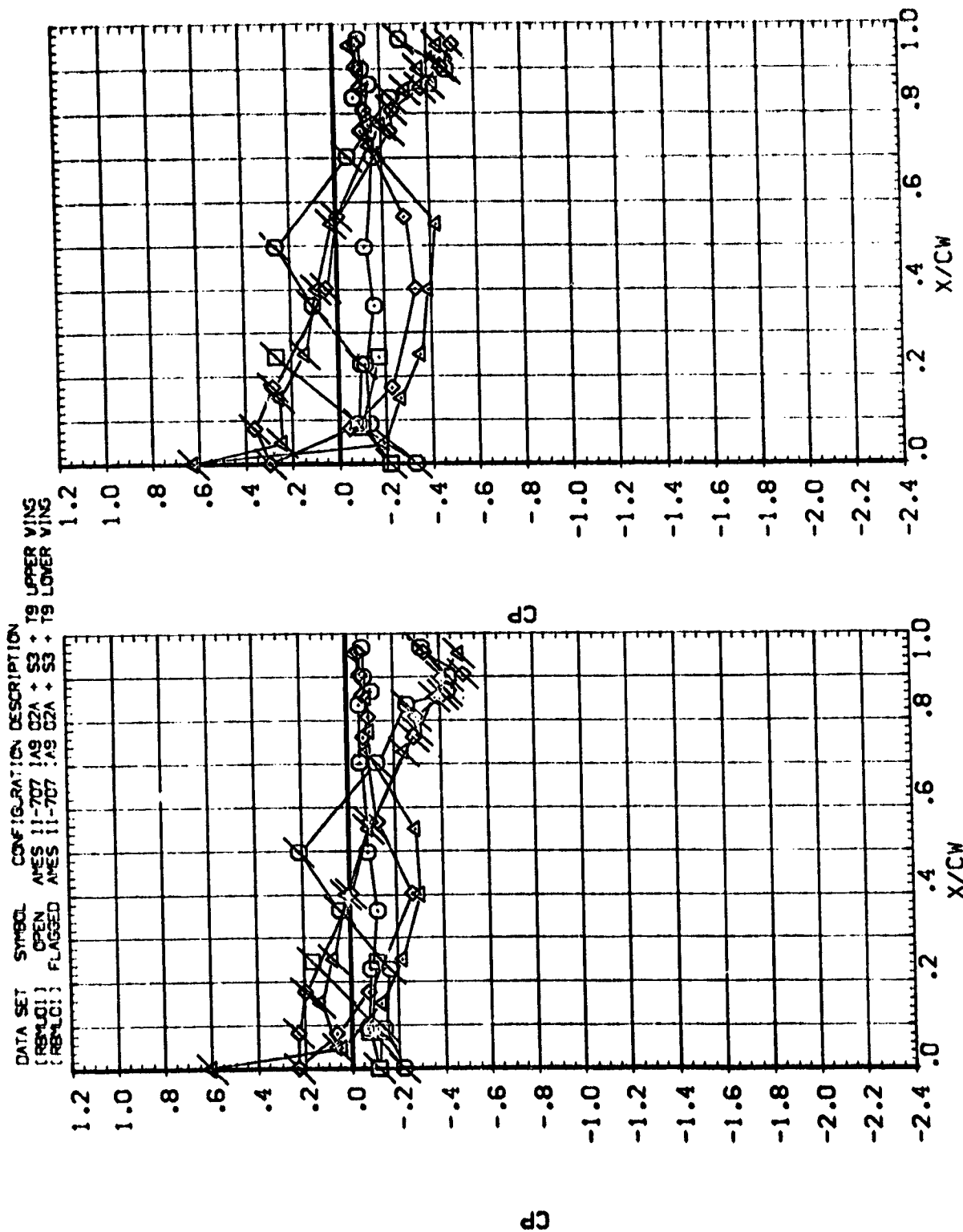
PARAMETRIC VALUES
 BETAT .000 1.500
 RUDDER .000 ELEVON .000
 RUOFLR .000



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

ALPHAT	MACH
-4.030	1.250
.040	

PARAMETRIC VALUES	
BETAT	.000
BLUDD	.000
R2DFLR	.000
	1.500
	.000



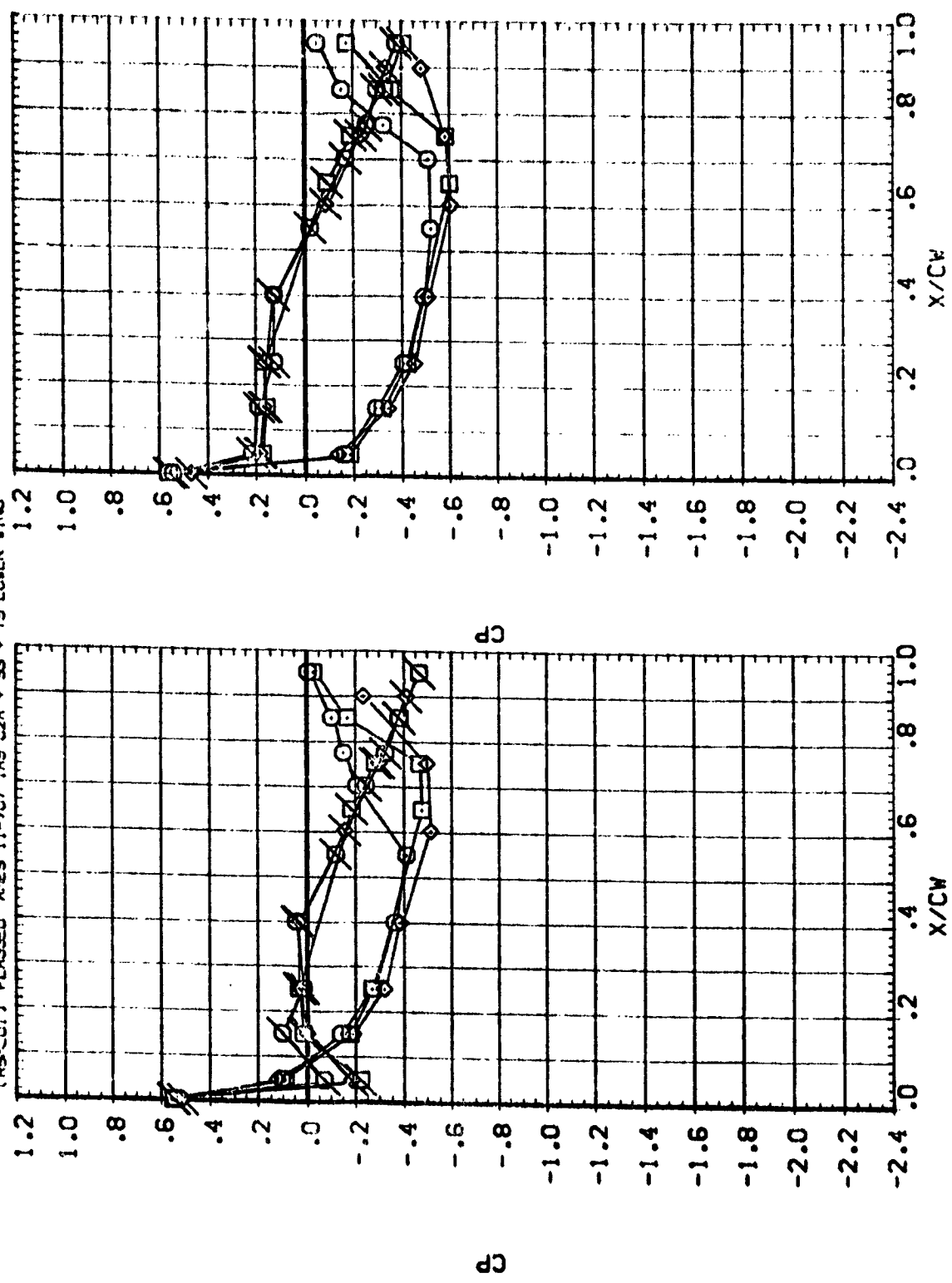
CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

==

SYMBOL Y/BV ALPHA MACH
 O .673 -4.030 1.250
 U .780 .040
 D .887

PARAMETRIC VALUES
 BETAT .000 DRBINC 1.500
 RUDDER .000 ELEVON .000
 RUFLLR .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (R3-C1) OPEN AYES 11-707 1A9 02A + S3 + T9 UPPER WING
 (R3-C1) FLAGED AYES 11-707 1A9 02A + S3 + T9 LOWER WING



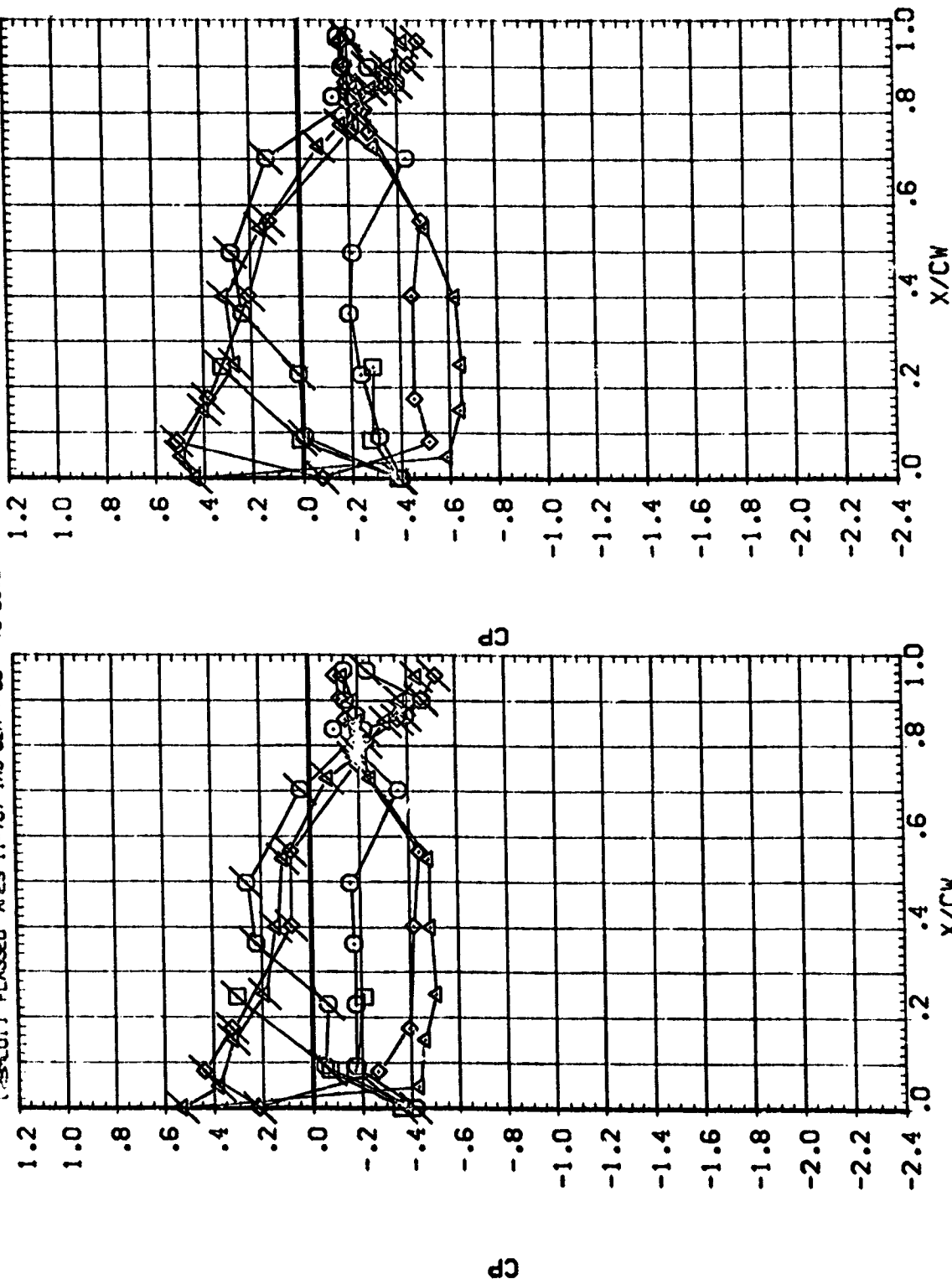
CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

11-707

PARAMETRIC VALUES
 BETAT 1.500
 RUDDER .000
 RUOFLR .000
 ORBINC .000
 ELEVON .000

SYMBOL Y/BV ALPHAT MACH
 .299 4.040 1.250
 .364 8.010
 .427
 .534

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RB-LO) OPEN AMES 11-707 [A9 02A + S3 + T8 UPPER WING
 (RB-LO) FLAGGED AMES 11-707 [A9 02A + S3 + T8 LOWER WING



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

==

SYMBOL
○ □ ◇

Y/B₀ .673
.78C
.887

ALPHA° 4.040
8.010

MACH 1.250

PARAMETRIC VALUES

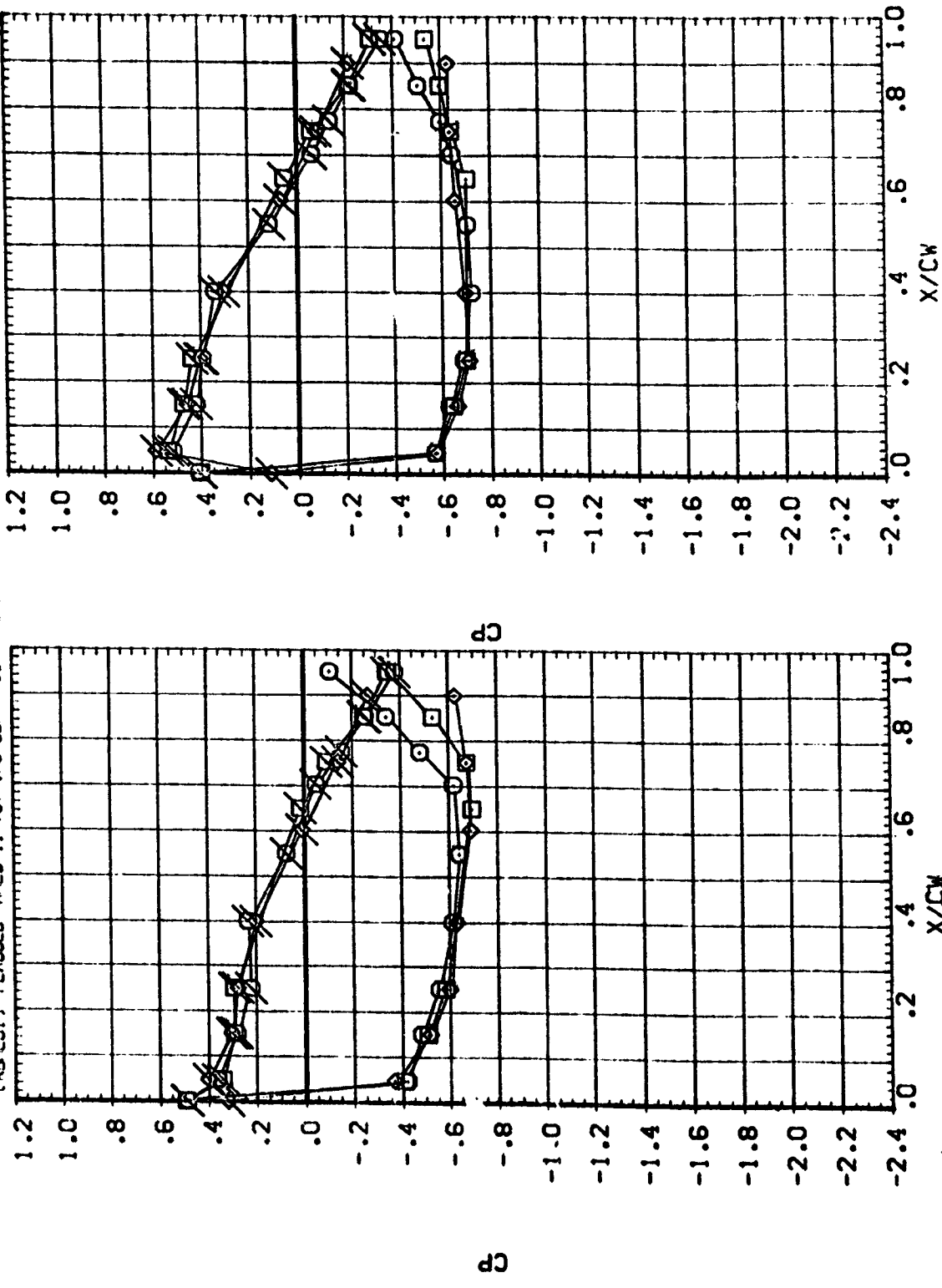
BETAT .000
RUDDER .000
RUDFLR .000

ORBITALC 1.500
ELEVON .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(R8-C1) OPEN AMES 11-707 1A9 02A + S3 + T9 UPPER WING

(R8-C1) FLAGGED AMES 11-707 1A9 02A + S3 + T9 LOWER WING



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

PARAMETRIC VALUES

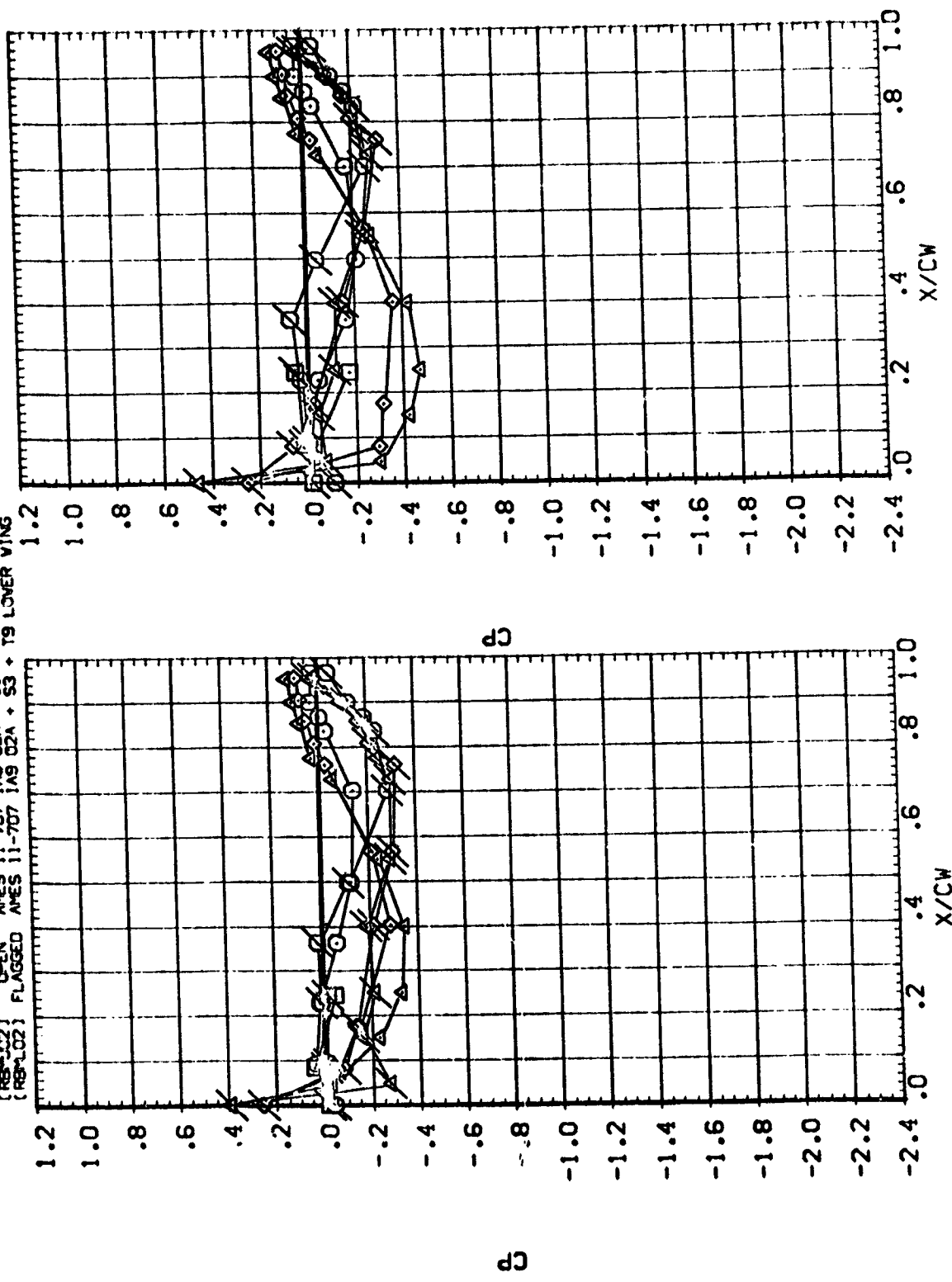
BETAT	.000	ORBINC	.500
RLODER	.000	ELEVON	.000
RLOFLR	.000		

SYMBOL

Y/BV	ALPHAT	MACH
.299	-3.990	.598
.364	.020	
.427		
.534		

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(R8-C2)	OPEN	AXES 11-707 1A9 02A + S3 + T9 UPPER WING
(R8-C2)	FLAGGED	AXES 11-707 1A9 02A + S3 + T9 LOWER WING



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES



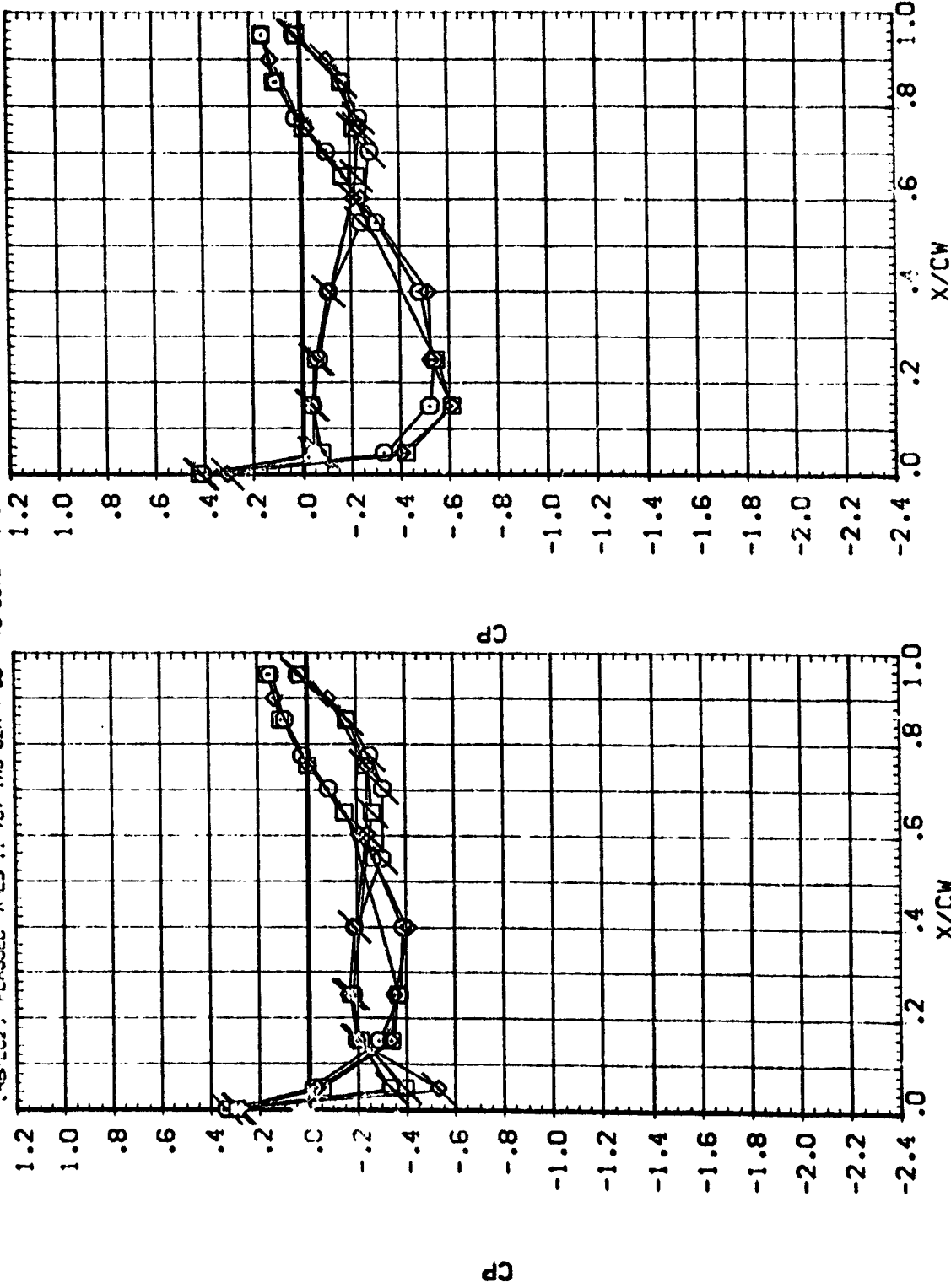
SYNOPSIS
Y/BV .673
.780
.887

ALPHA
-3.990
.020

MACH
.598

PARAMETRIC VALUES
BETAT .000
RUDDER .000
RUDFLR .000
ORBITC .500
ELEVON .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
[RSC02] OPEN ASES 11-707 1A9 C2A + S3 + T9 UPPER WING
[RSC02] FLAGGED ASES 11-707 1A9 C2A + S3 + T9 LOWER WING



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

PARAMETRIC VALUES

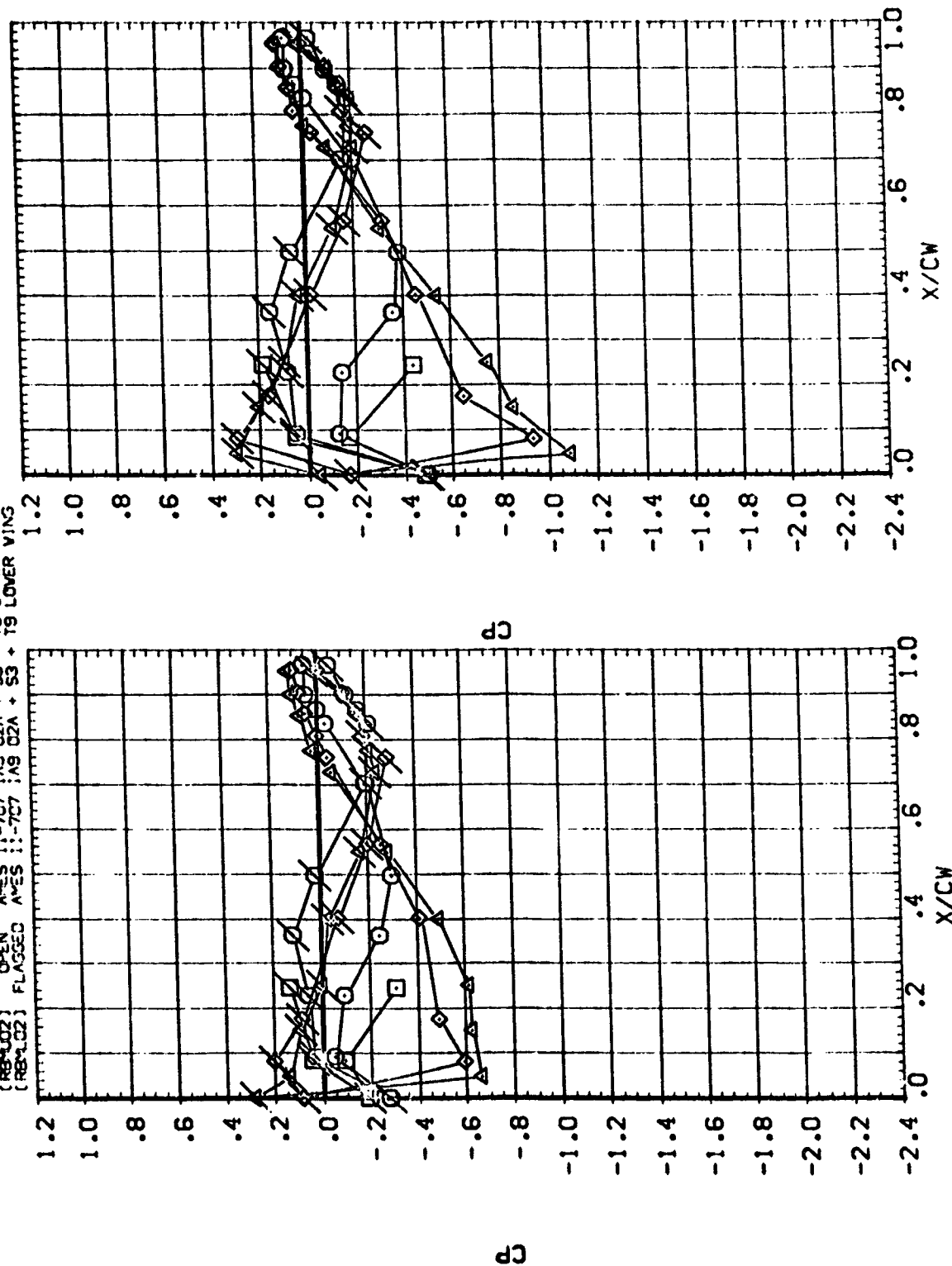
BETAT	.000	-ORBN	.500
RJDDER	.000	ELEVON	.000
RJDFLR	.000		

SYMBOL Y/BV ALPHAT MAC

○	.299	4.020	.598
□	.364	8.000	
◇	.427		
△	.534		

DATA SET SYMBOL CONF:G:RAT:ION DESCRIPTION

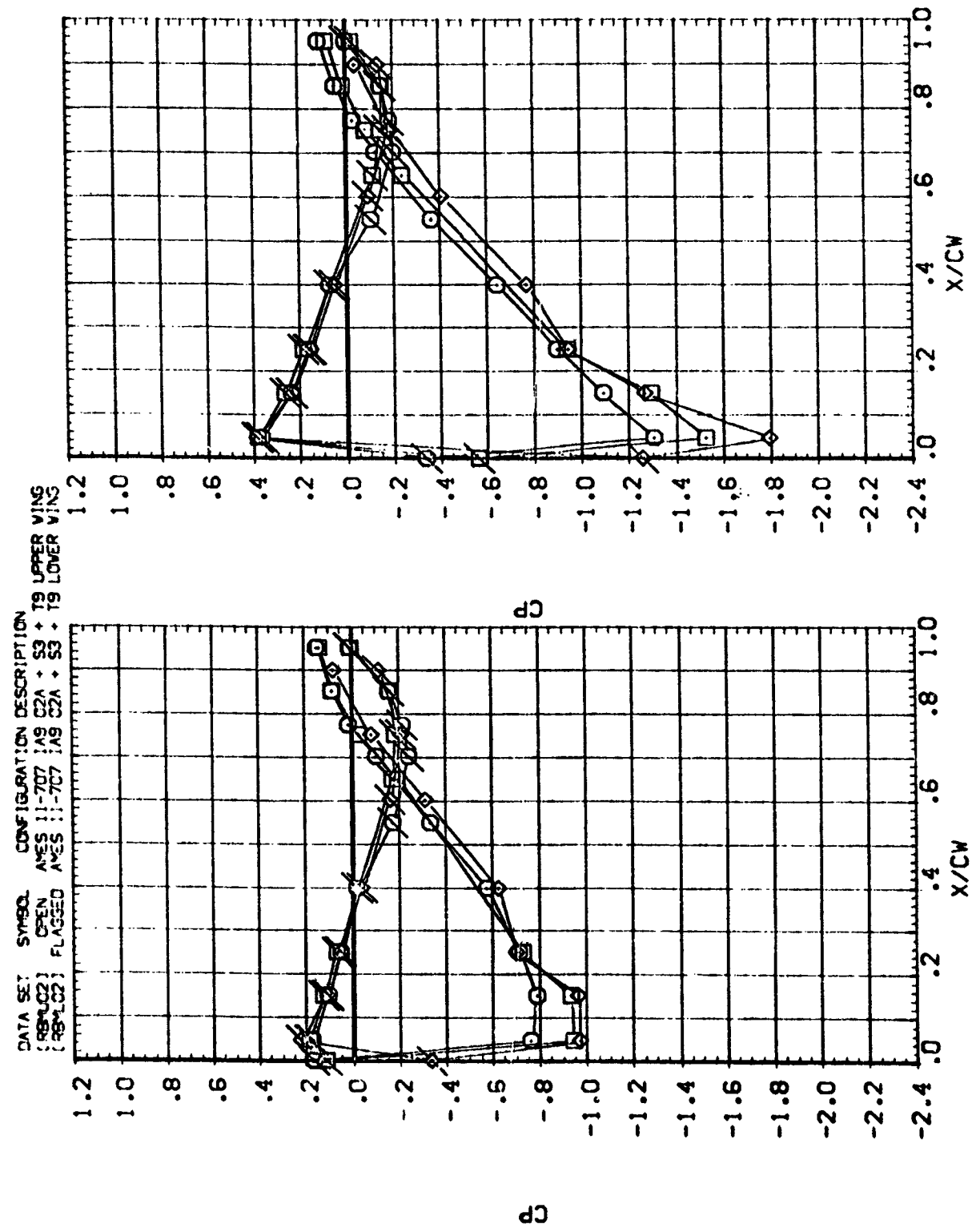
(RB-102)	OPEN	AMES 11-707	AS 02A + S3 + T9 UPPER WING
(RB-102)	FLAGGED	AMES 11-707	AS 02A + S3 + T9 LOWER WING



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES



SYMBOL	V/BV	ALPHA	MACH	BETAT	PARAMETRIC VALUES
○	.673	4.020	.598	.000	ORBINC
◇	.780	8.000		.000	ELEVON
◇	.887			.000	RUDDER
					RUDDER



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

PARAMETRIC VALUES

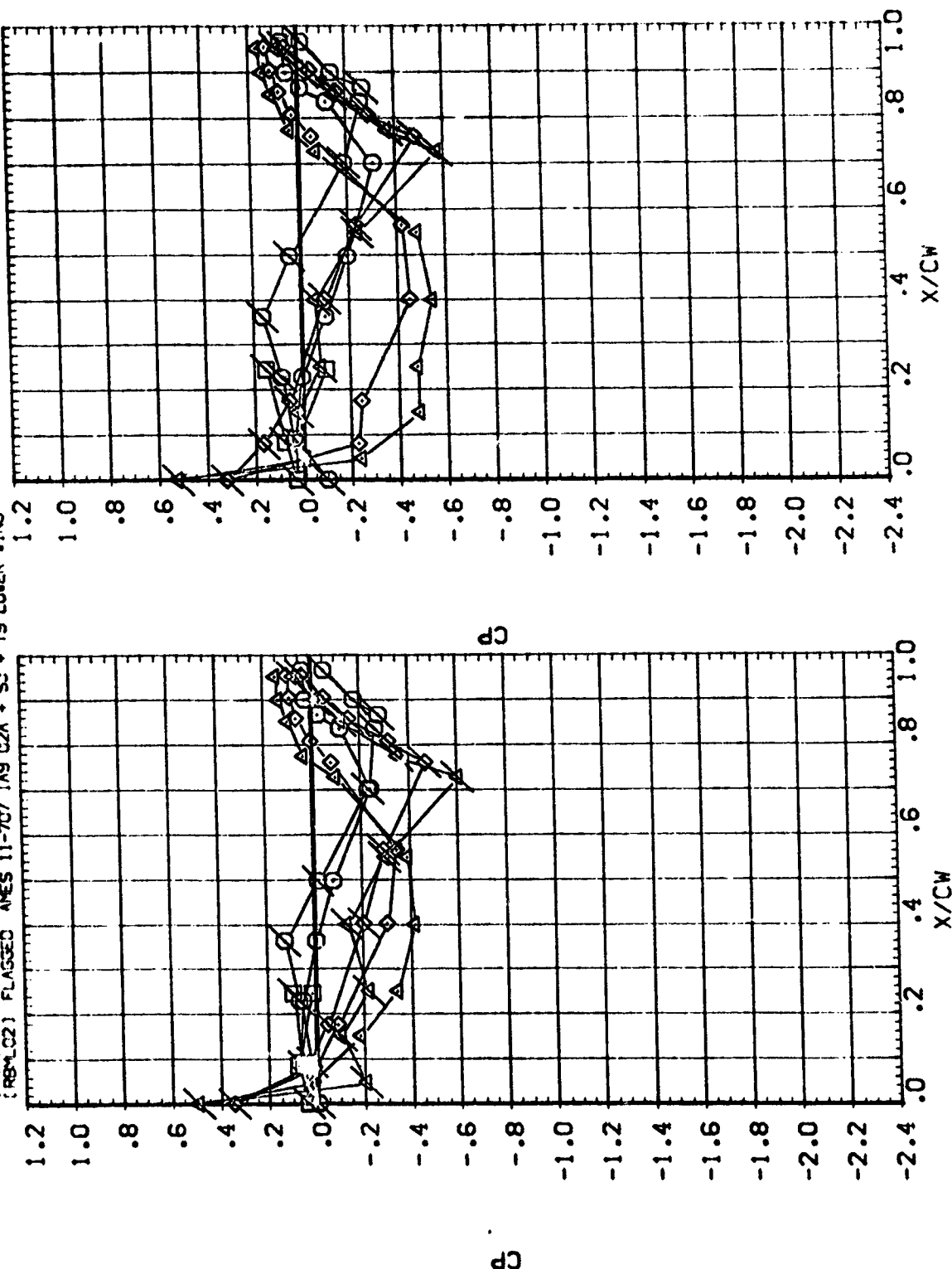
BETAT	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RJOFLLR	.000		

SYMBOL

V/BV	ALPHAT	MACH
.289	-4.030	.903
.364	.010	
.427		
.534		

DATA SET SYMBOL CONFIGURATION DESCRIPTION

[RB-102]	OPEN	ANES 11-707 1A9 02A + S3 + T9 UPPER VING
[RB-102]	FLAGGED	ANES 11-707 1A9 02A + S3 + T9 LOWER VING



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES



SYMBOL
○ □ ◇

V/BV
.673
.780
.887

ALPHA
-4.030
-3.310

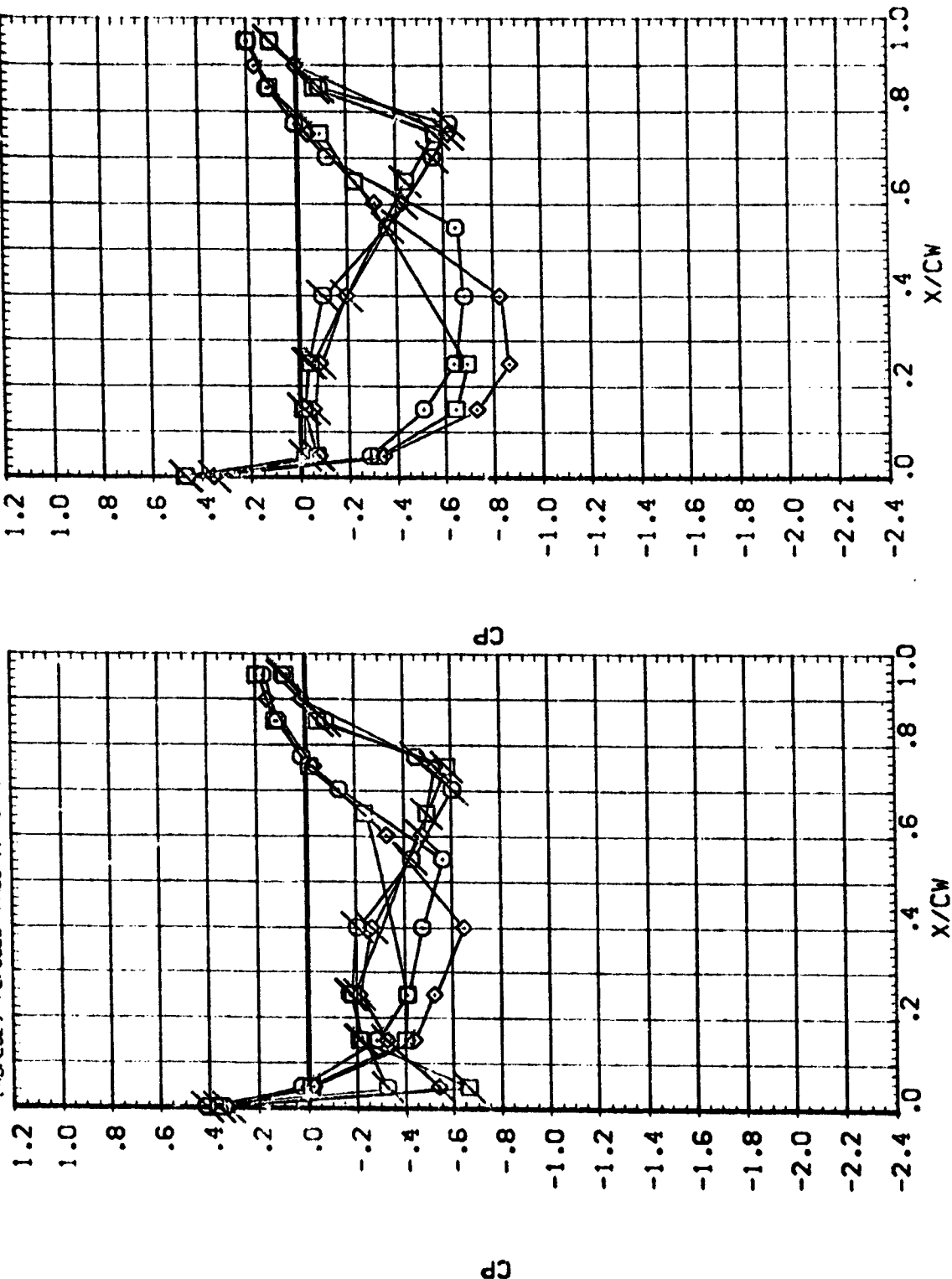
MACH
.503

BETAT
RUDDER
RUOFLR

PARAMETRIC VALUES
.000 .000 .500
.000 .000 .000
ELEVON

DATA SET SYMBOL CONFIGURATION DESCRIPTION

{RBFL02} OPEN AYES 11-707 1A9 02A + S3 + 19 UPPER WING
{RBFL02} FLAGGED AYES 11-707 1A9 02A + S3 + 19 LOWER WING



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

PARAMETRIC VALUES

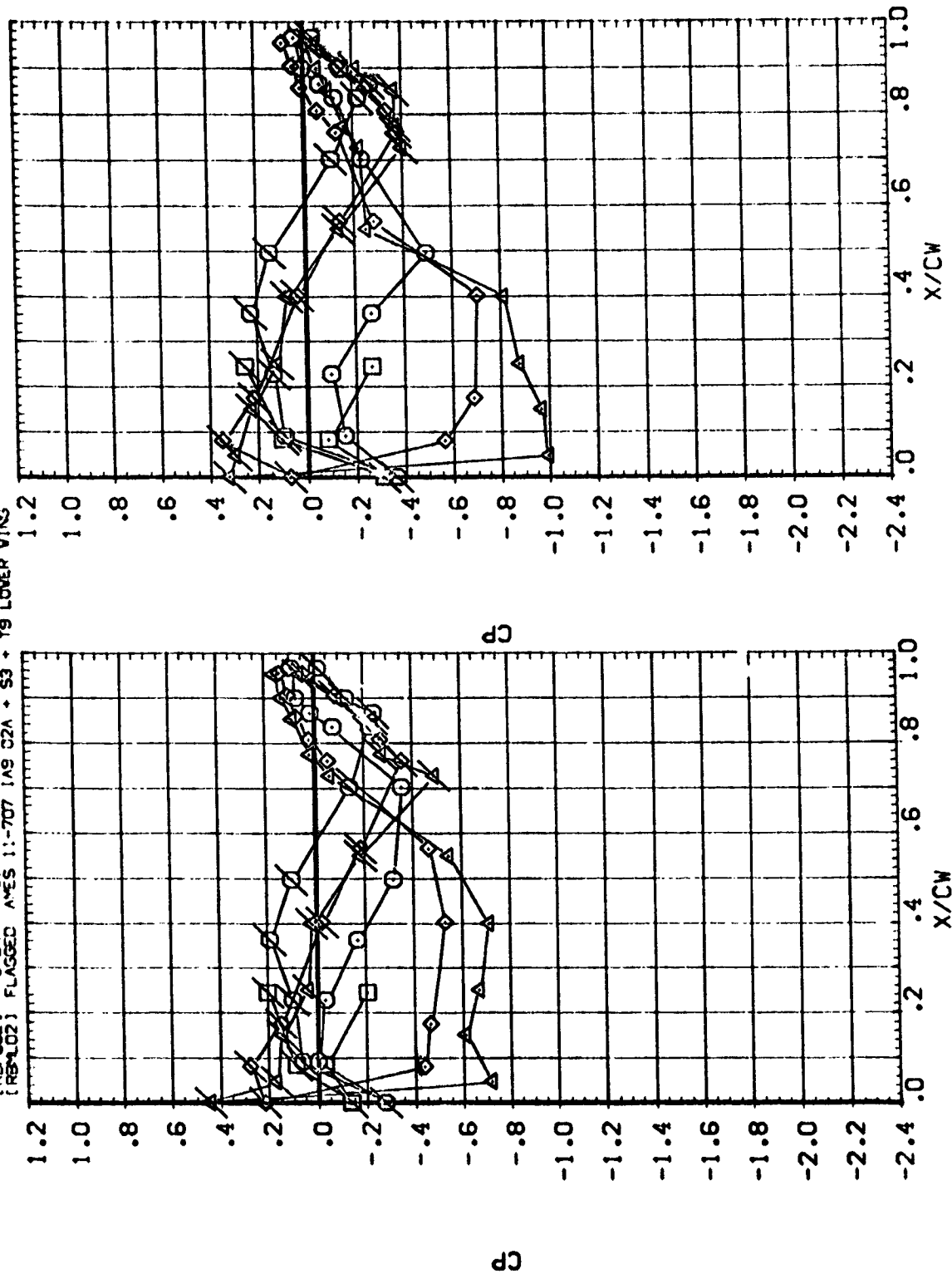
BETA	.000	CRBINC	.500
RUDDER	.000	ELEVON	.000
RUDDER	.000		

SYMBOL Y/BV ALPHA⁺ MACH

○	.299	4.040	.903
□	.364	8.000	
◇	.427		
△	.534		

DATA SET SYMBOL CONFIGURATION DESCRIPTION

[RB-02]	OPEN	ANES 11-707 1A9 02A + S3 + T9 UPPER WING
[RB-02]	FLAGGED	ANES 11-707 1A9 02A + S3 + T9 LOWER WING



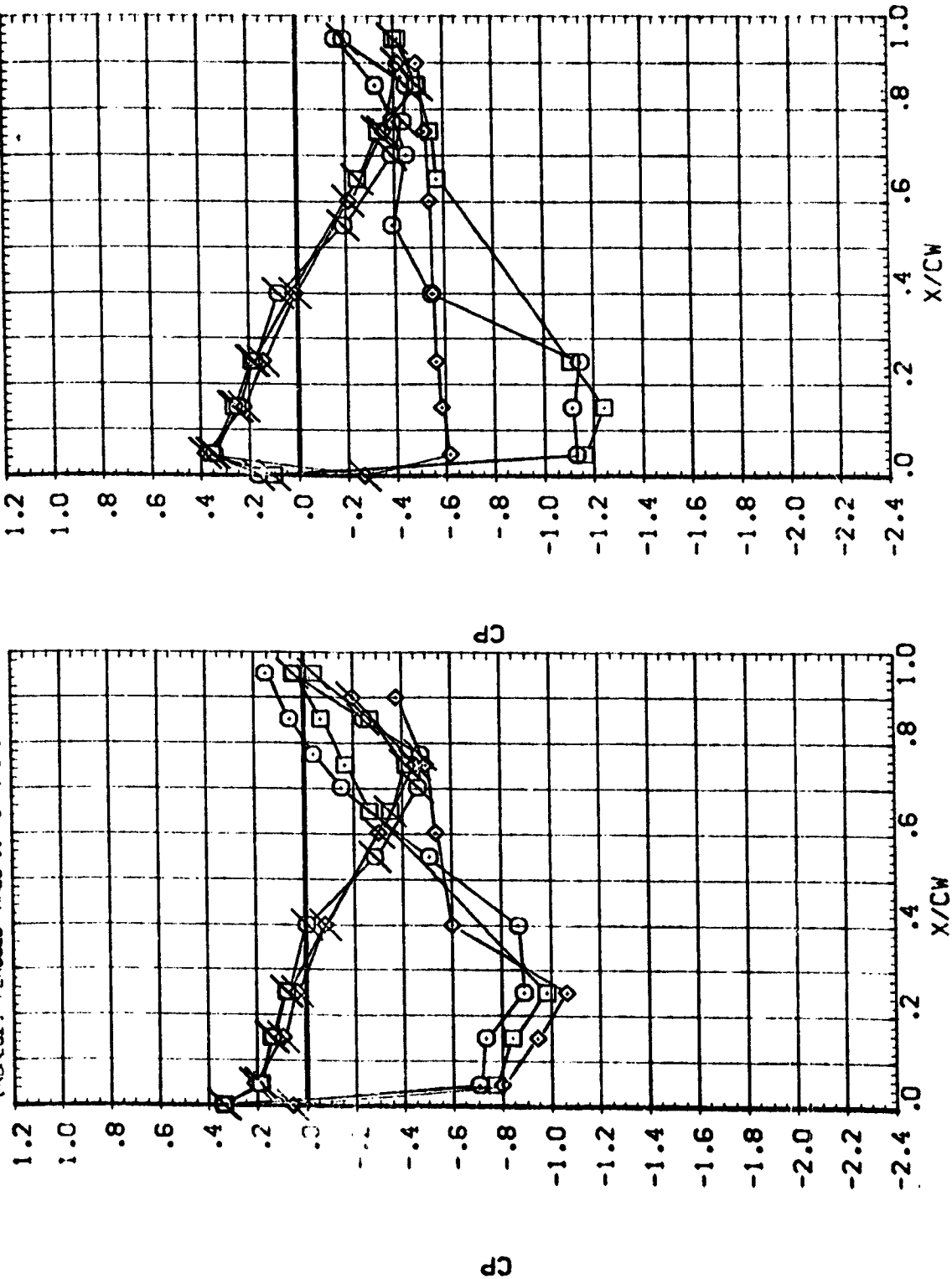
CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES



SYNOPSIS
Y/BV .573
ALPHAT 4.040
MACH .903
R100 1.780
R100 1.887

PARAMETRIC VALUES
BETAT .000
R100E4 .000
R100FLR .000
ORBINC .500
ELEVON .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(R100C02) OPEN ANES 11-707 1A9 02A + S3 + T9 UPPER WING
(R100C02) FLAGGED ANES 11-707 1A9 02A + S3 + T9 LOWER WING



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES



SYMBOL
O
I
Δ
▽

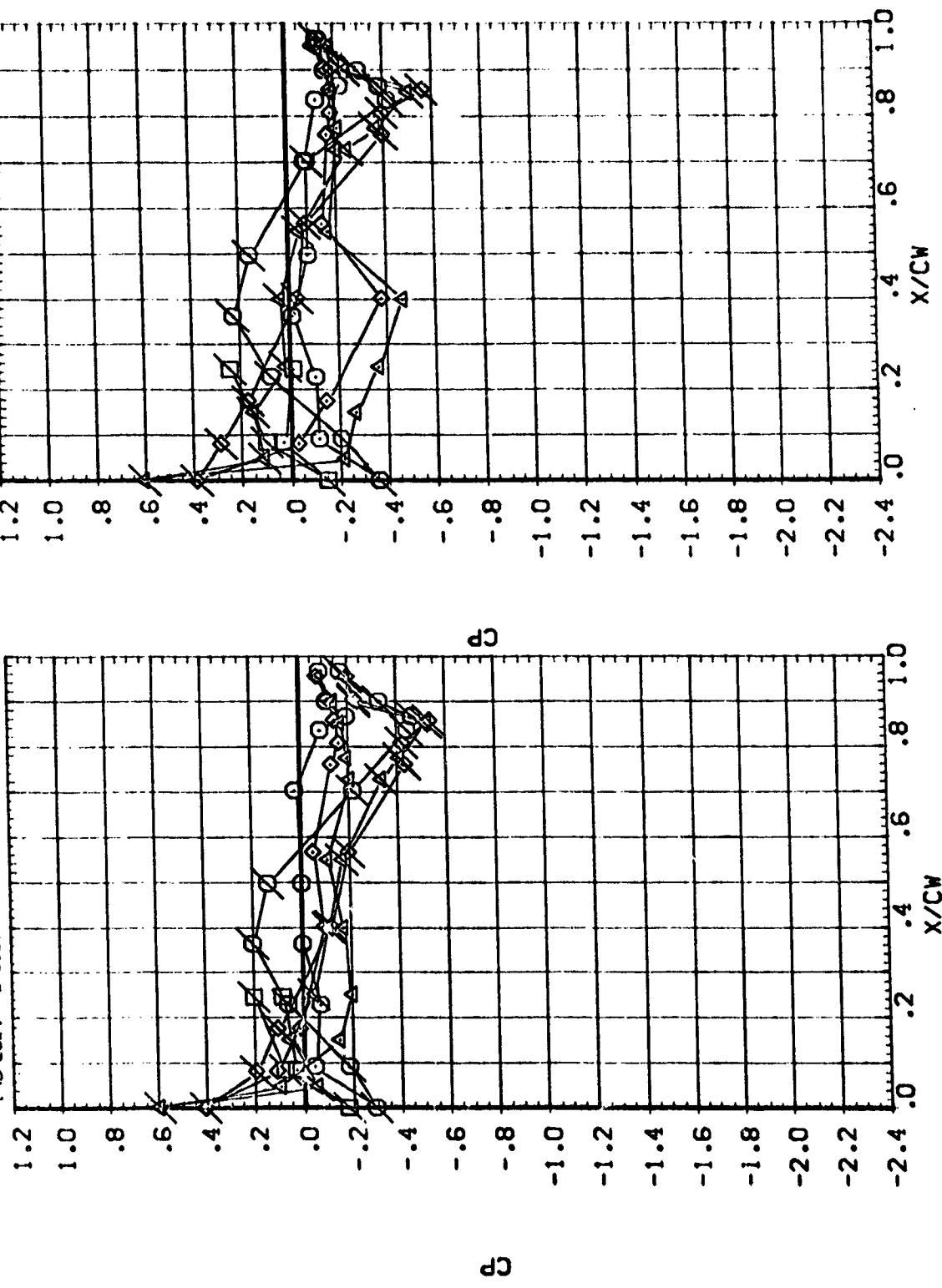
Y/BN
.299
.354
.427
.534

ALPHA
-4.000
-.030

MACH
1.102

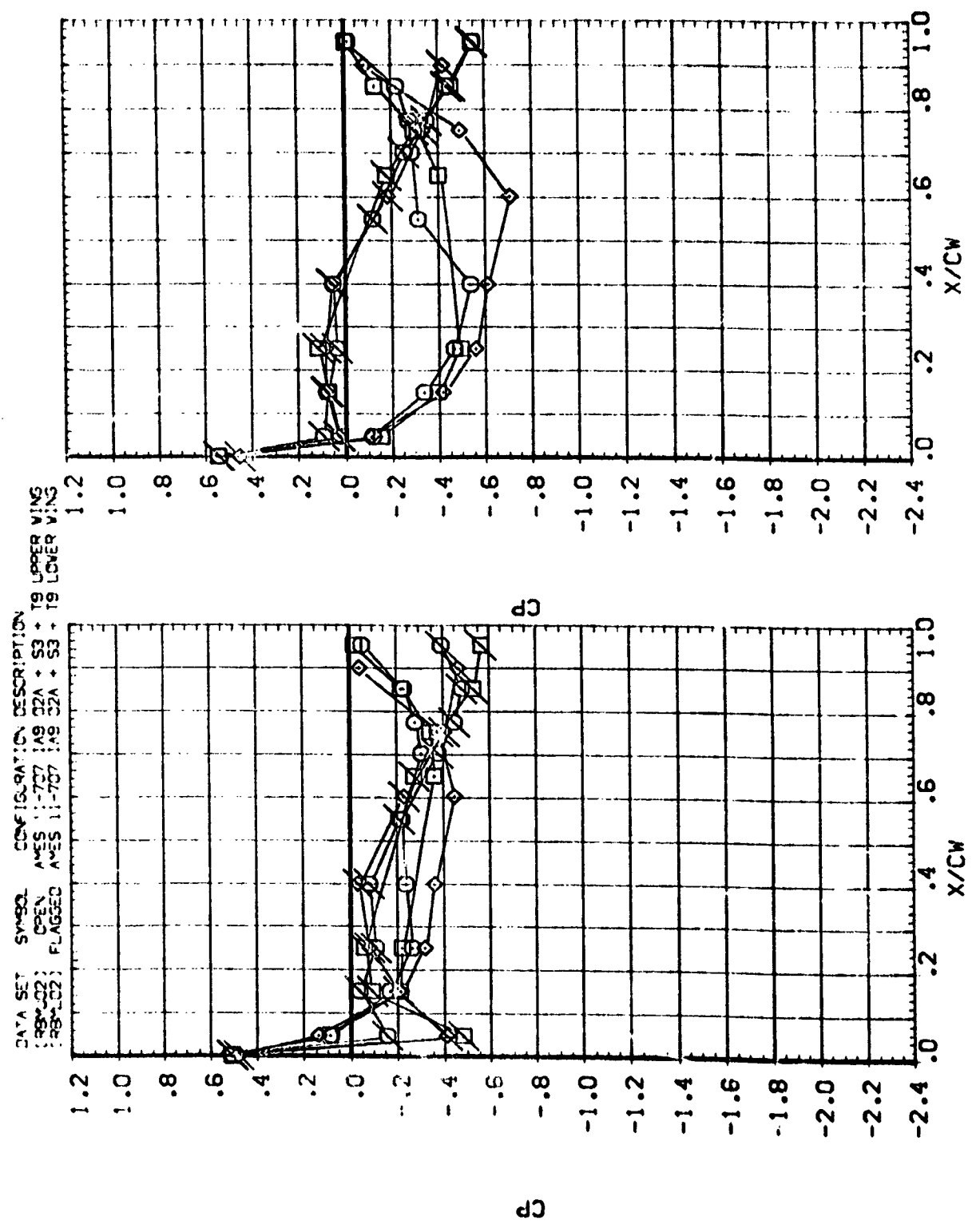
PARAMETRIC VALUES
BETAT .000 ORBINC .500
RUDER .000 ELEVON .000
RUDFLR .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
RPM-02 OPEN AMES 11-707 1A9 C2A + S3 + T8 UPPER WING
RPM-02 FLAGGED AMES 11-707 1A9 C2A + S3 + T8 LOWER WING



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

SYMBOL	Y/BN	ALPHAT	MACH	BETAT	PARAMETRIC VALUES
○	.673	-4.000	1.102	RJODER	.000
□	.780	-4.000	1.102	RJODER	.000
◇	.887	-4.000	1.102	RJODER	.000



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES



SYMBOL

Y/BN

ALPHA

MACH

1.102

3.98C

7.94C

.299

.354

.427

.534

PARAMETRIC VALUES

BETAT

RJODER

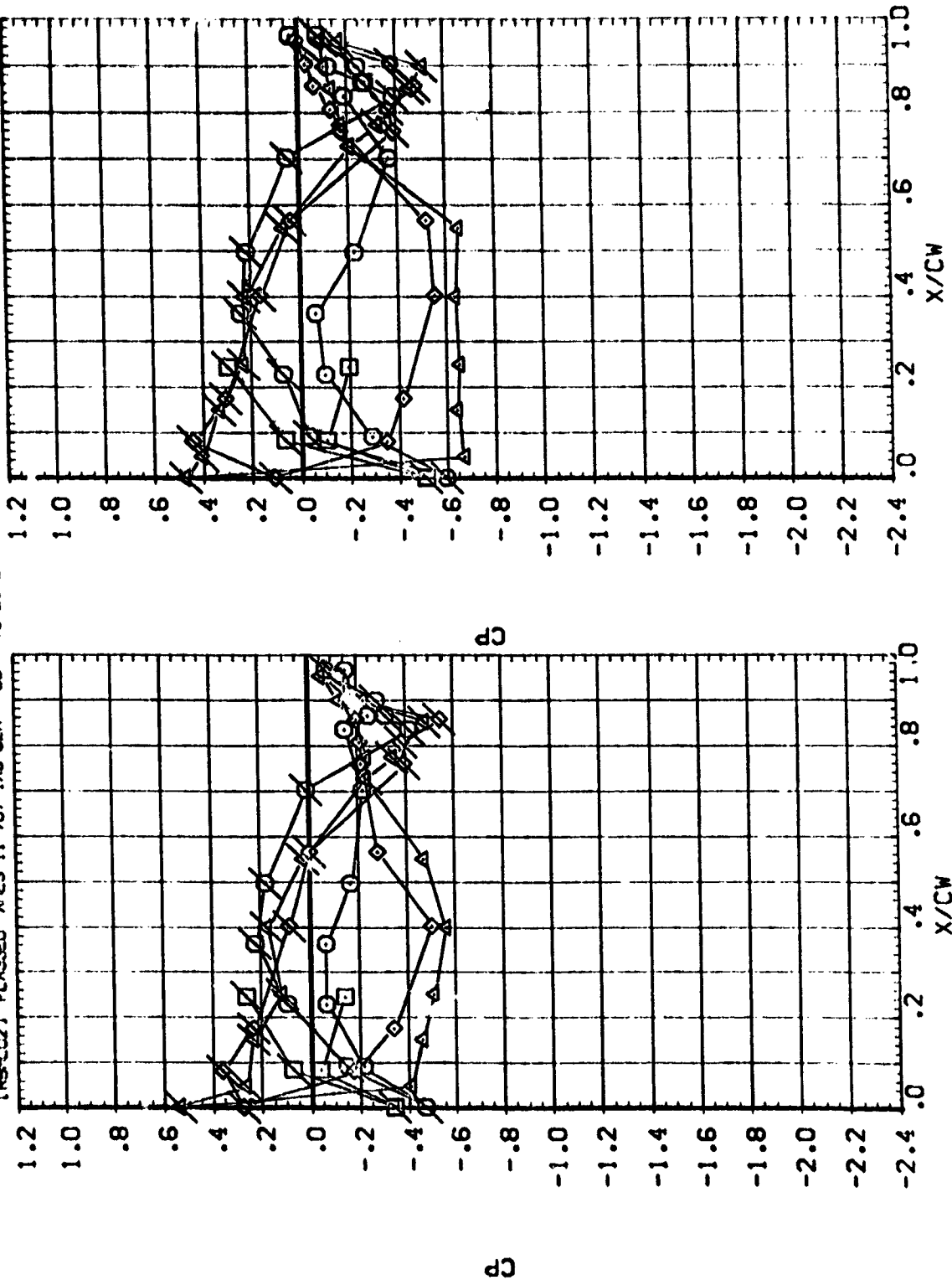
RJDFLR

.50C

.00C

.00C

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RSP-02) OPEN AMES 11-707 IAG O2A + S3 + T9 UPPER WING
 (RSP-02) FLAGGED AMES 11-707 IAG O2A + S3 + T9 LOWER WING



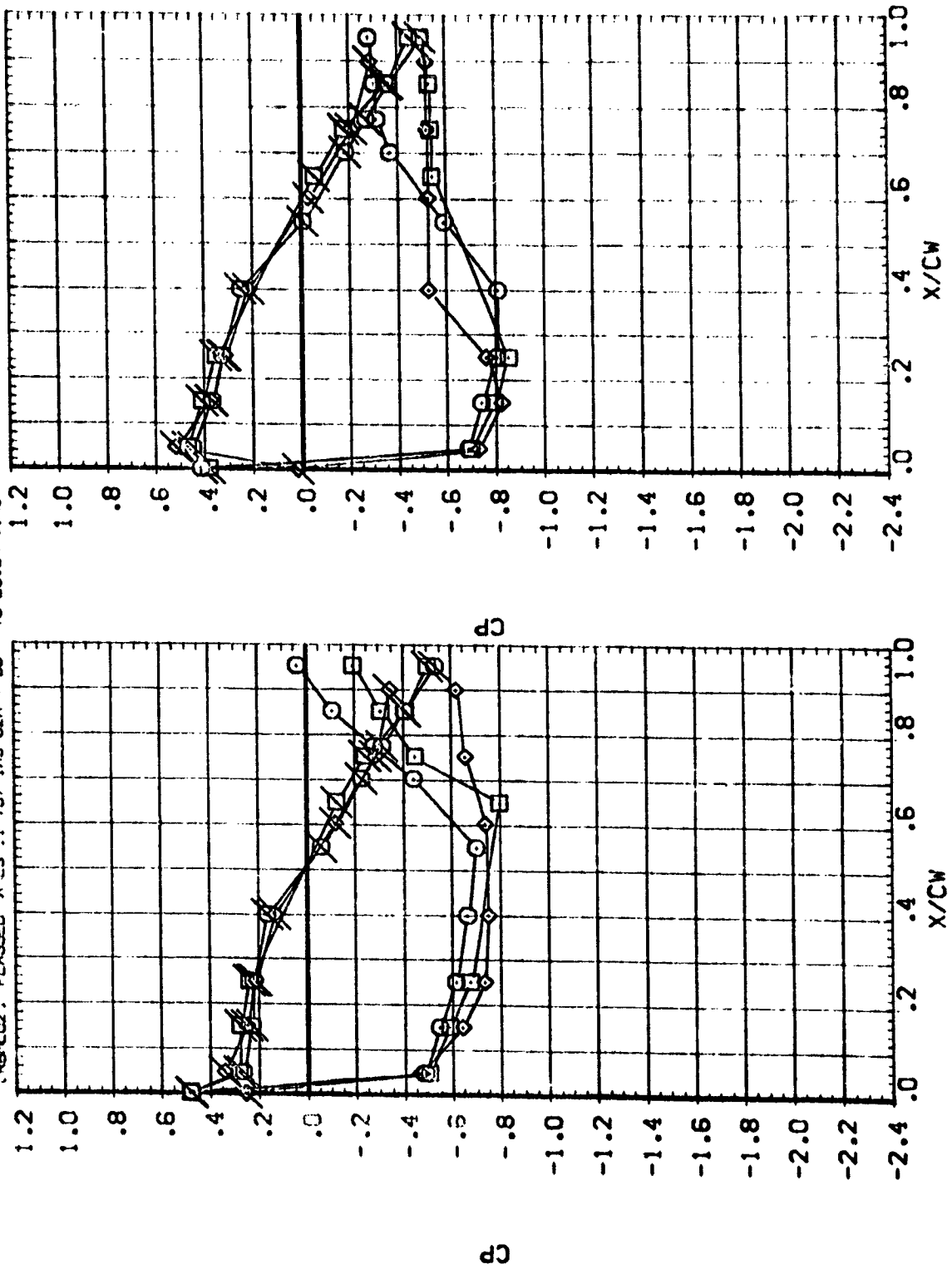
CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

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SYMBOL V/BV ALPHA MACH
 110 .673 3.980 1.102
 101 .780 7.540
 102 .887

PARAMETRIC VALUES
 BETAT .000 9881C .500
 RUDDER .000 ELEVON .000
 RUDFLP .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 101 102 OPEN ANES 11-707 1A9 02A + S3 + T9 UPPER WING
 102 102 FLAGGED ANES 11-707 1A9 02A + S3 + T9 LOWER WING



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

SYMBOL Y/BV

○ .259
 □ .364
 ◇ .427
 △ .534

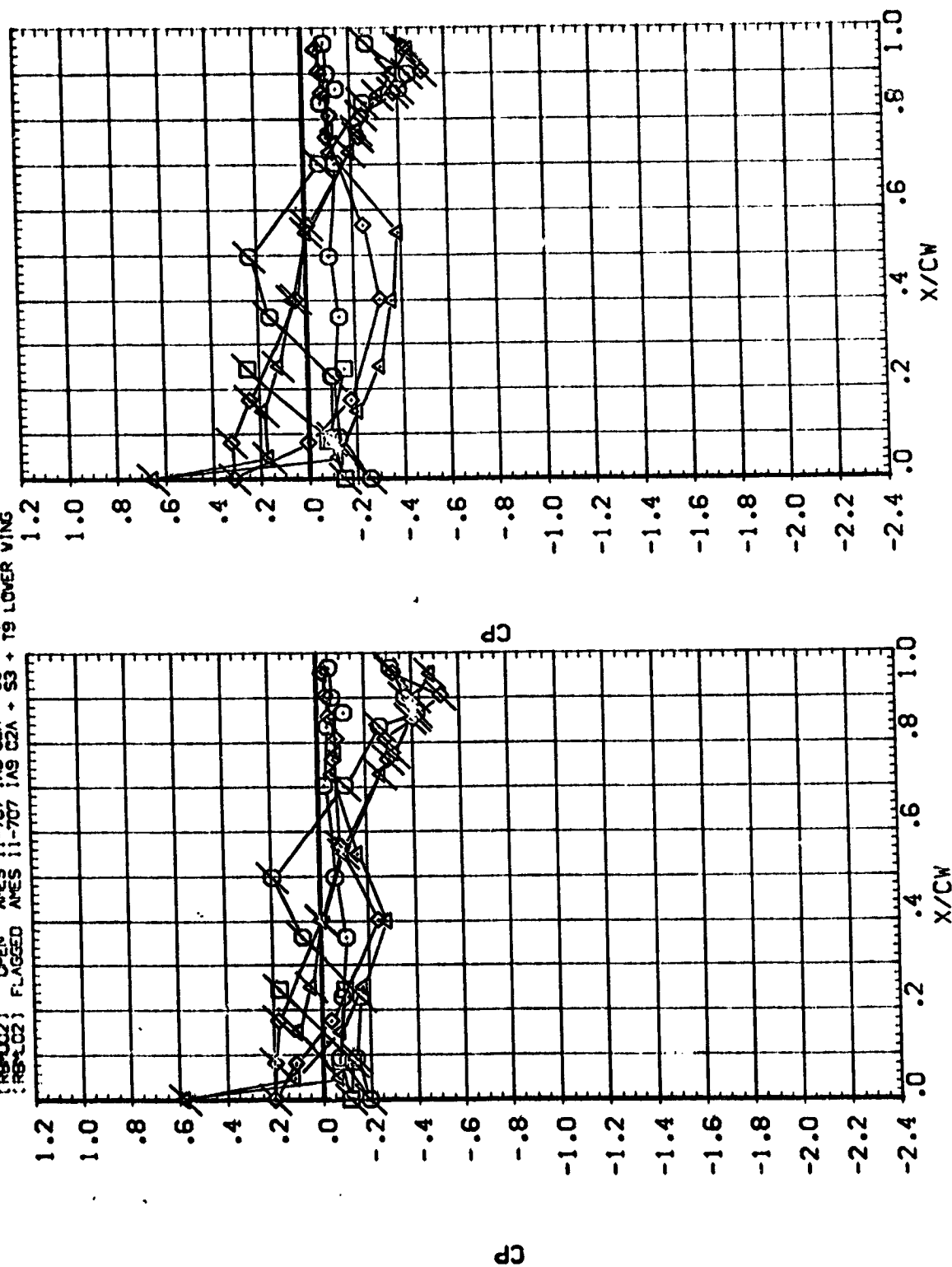
ALPHA T MACH
 -3.980 1.249
 .040

PARAMETRIC VALUES

BETAT .000
 RUDDER .000
 ROLF R .000

OSBINC .500
 ELEVON .000

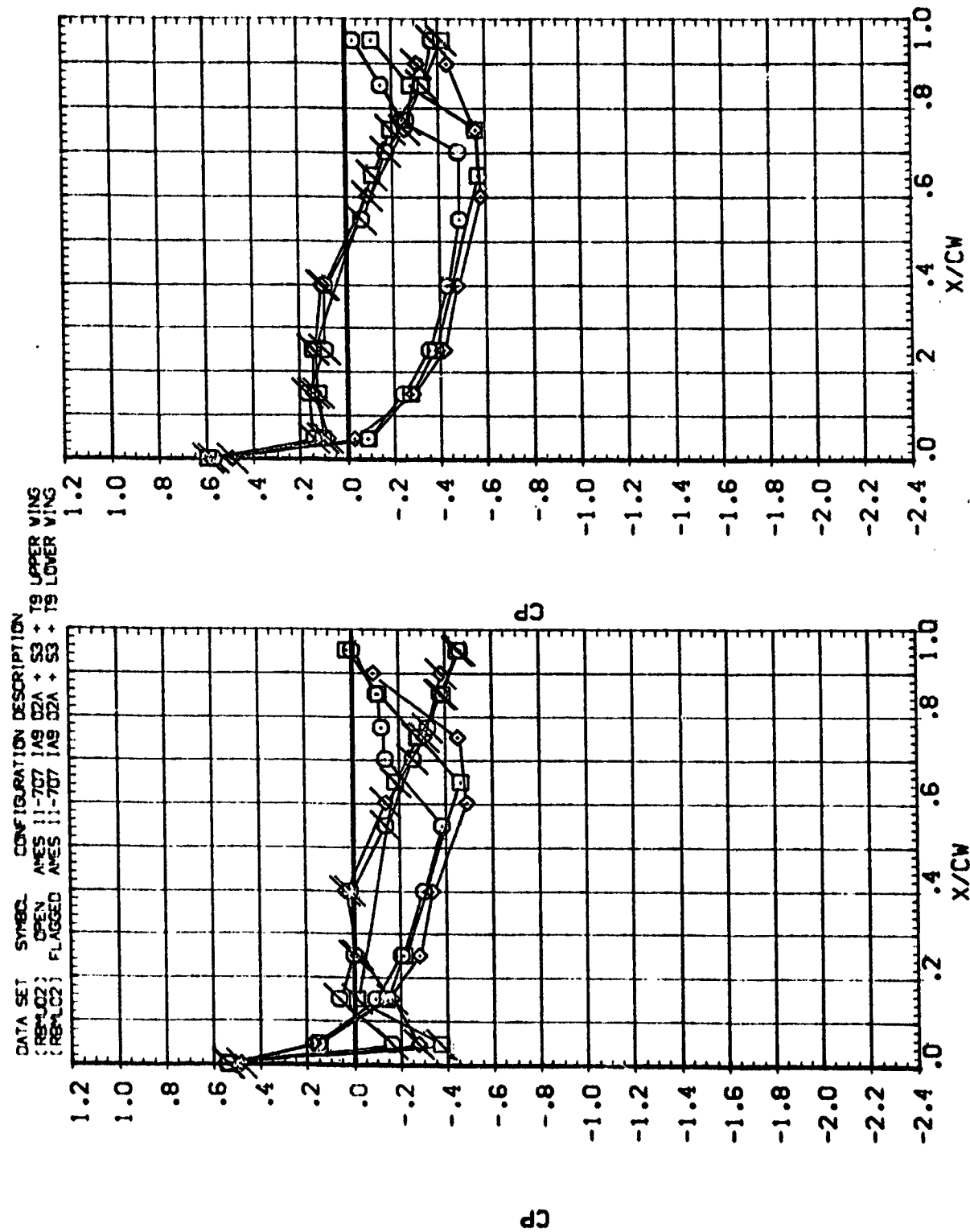
DATA SET SYMBOL CONFIGURATION DESCRIPTION
 [REPL02] OPEN AMES 11-707 1A9 02A + S3 + T9 UPPER WING
 [REPL02] FLAGGED AMES 11-707 1A9 02A + S3 + T9 LOWER WING



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

SYNCH V/BV ALPHA MACH
 .673 -3.980 1.249
 .780 .040
 .887

PARAMETRIC VALUES
 BETAT .000 ORBINC .500
 RUDDER .000 ELEVON .000
 RUOFLR .000



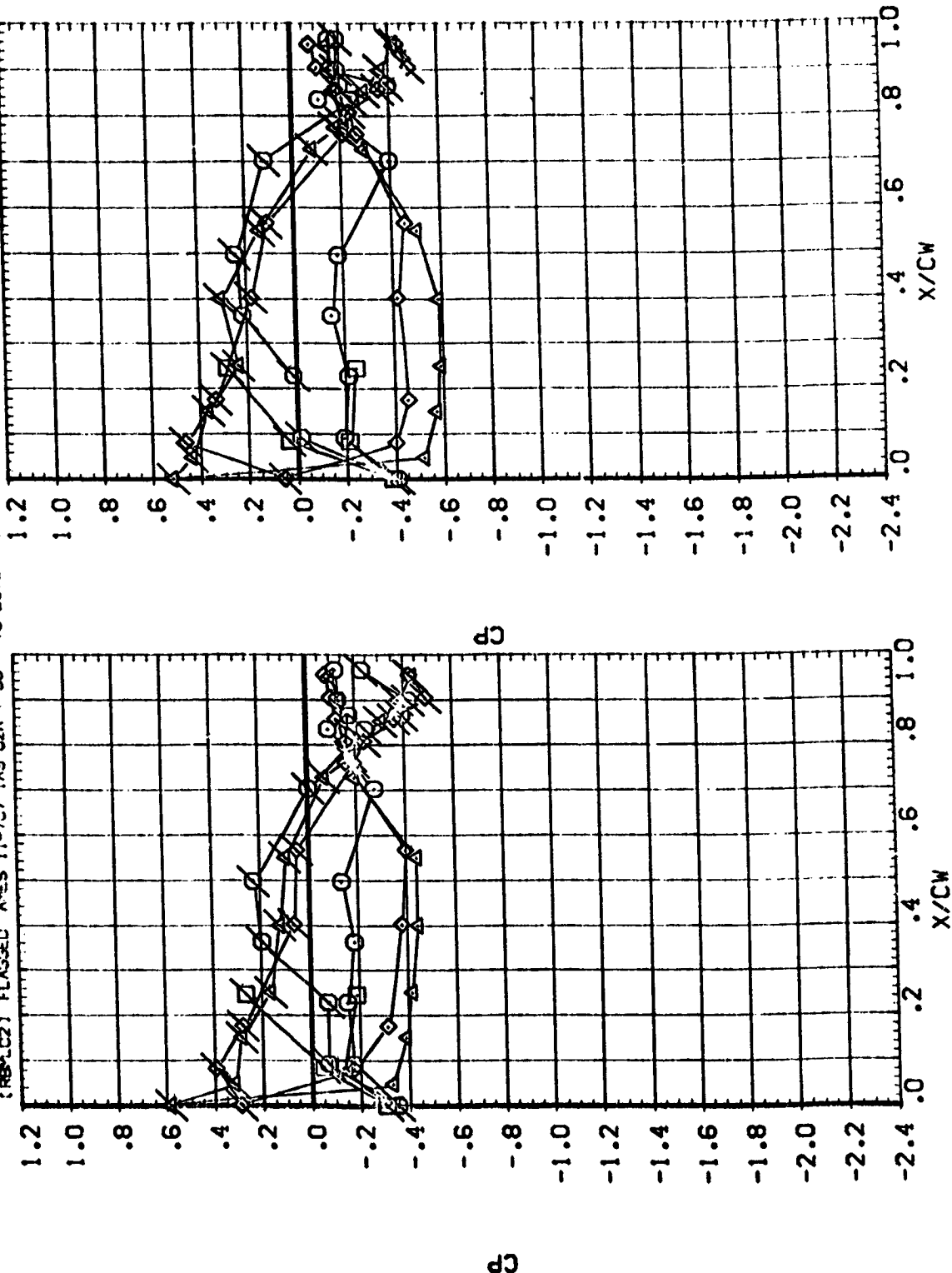
CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

SYMBOL Y/BV

A.P. T MACH
3.970 1.249
7.980

PARAMETRIC VALUES
BETA' .000 ORB:INC .500
RUDDER .000 ELEVON .000
RUDDLR .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
{RB*LC2} OPEN A*ES 11-707 IAS C2A + S3 + T9 UPPER WING
{RB*LC2} FLAGGED A*ES 11-707 IAS C2A + S3 + T9 LOWER WING



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

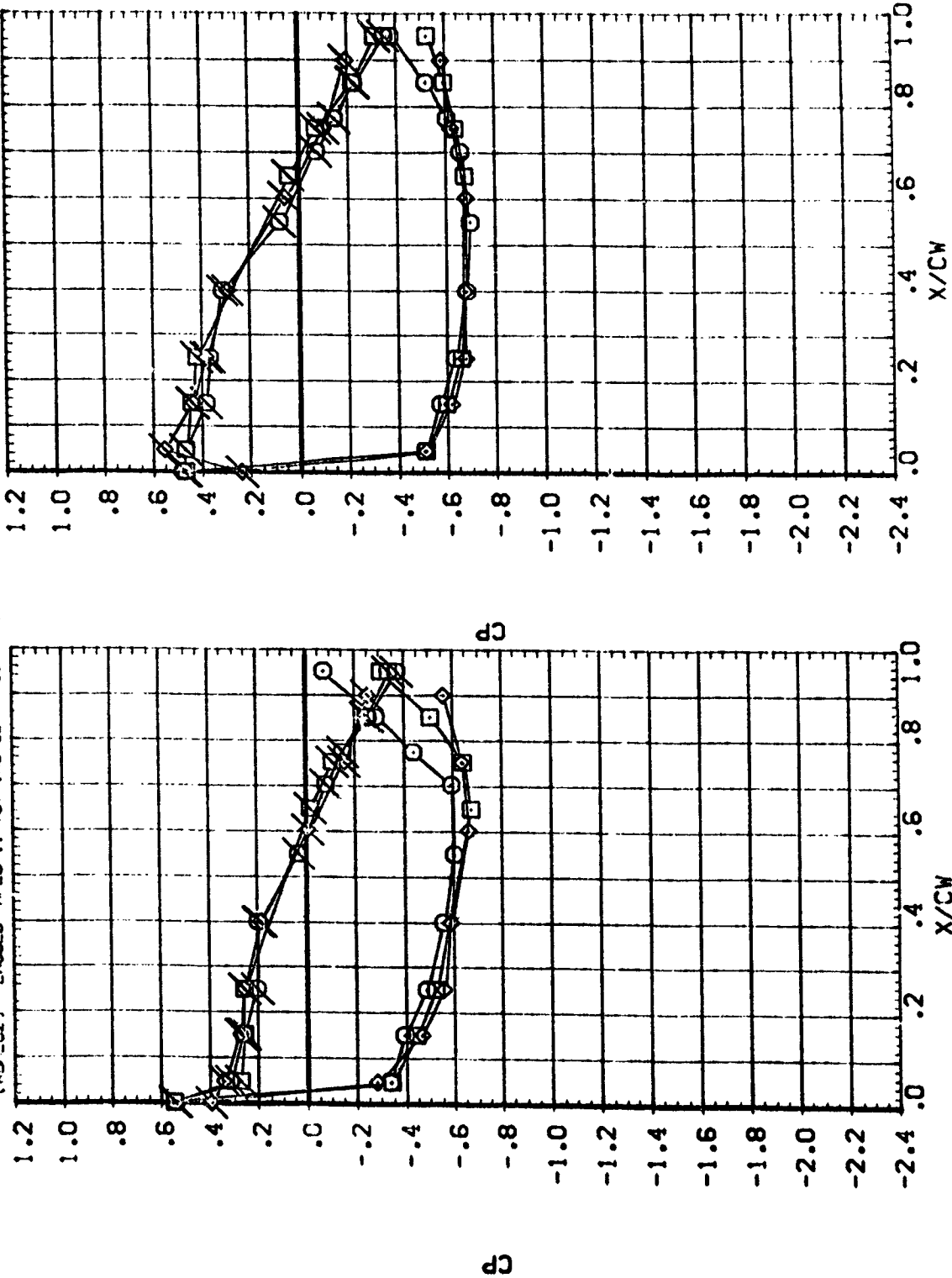
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SYMBOL V/30
 .673
 .78C
 .88C

ALPHA T MACH
 3.97C 1.248
 7.98C

PARAMETRIC VALUES
 BETAT .000 0.991NC .500
 RUDDER .000 ELEVON .000
 RUFLR .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RBS-Q2) OPEN ARES 11-707 :A9 C2A + S3 + T9 UPPER WING
 (RBS-Q2) FLAGGED ARES 11-707 :A9 C2A + S3 + T9 LOWER WING



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

PARAMETRIC VALUES

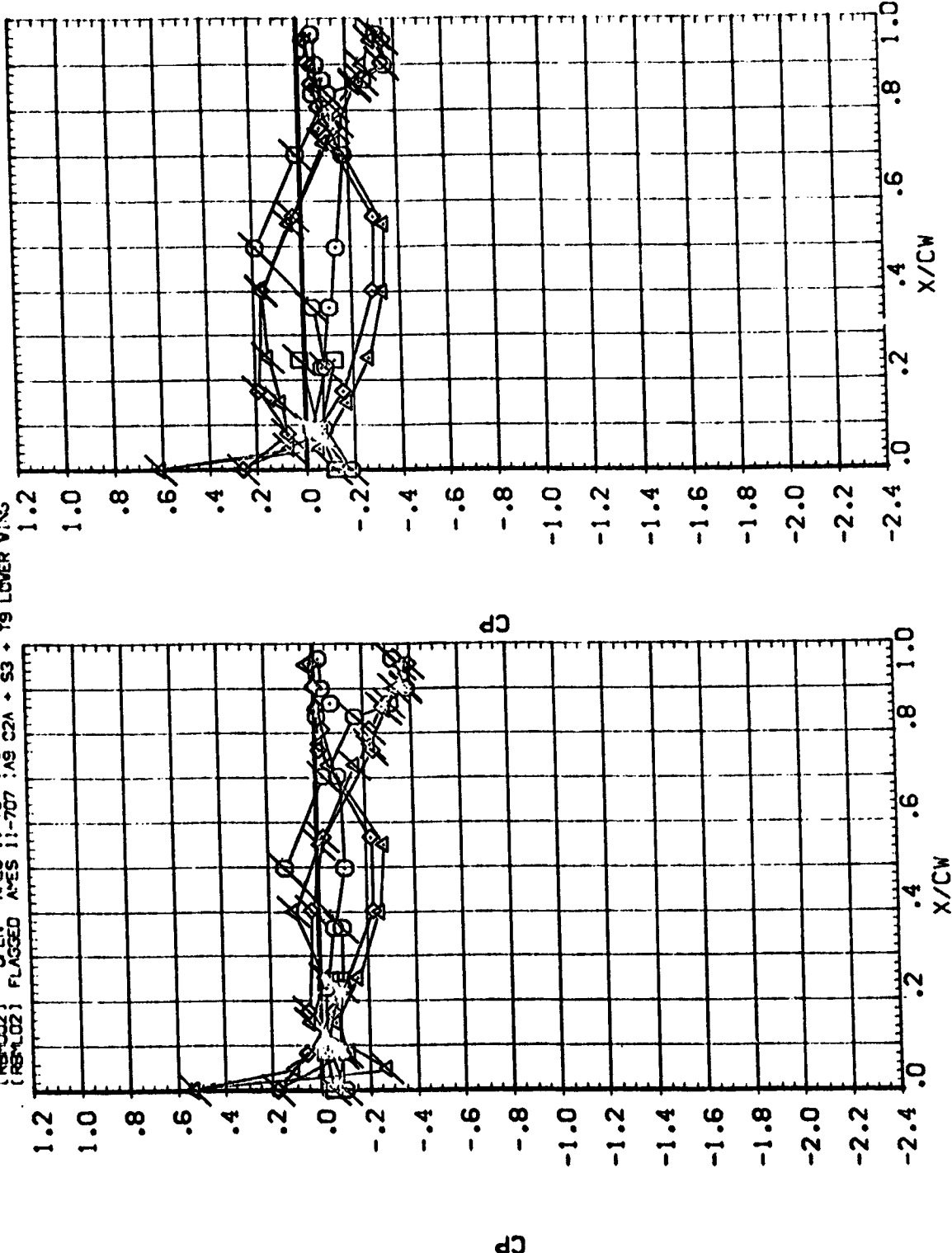
BETAT	.000	ORBNIC	.500
RJDOER	.000	ELEVON	.000
RJDFLR	.000		

SYMBOL Y/BV ALPHAT MACH

REPL02	.299	-3.980	1.401
REPL02	.364	.04C	
	.427		
	.534		

DATA SET SYMBOL CONFIGURATION DESCRIPTION

[REPL02]	OPEN	APES 11-707 : AS C2A + S3 + 19 UPPER WING
[REPL02]	FLAGGED	APES 11-707 : AS C2A + S3 + 19 LOWER WING



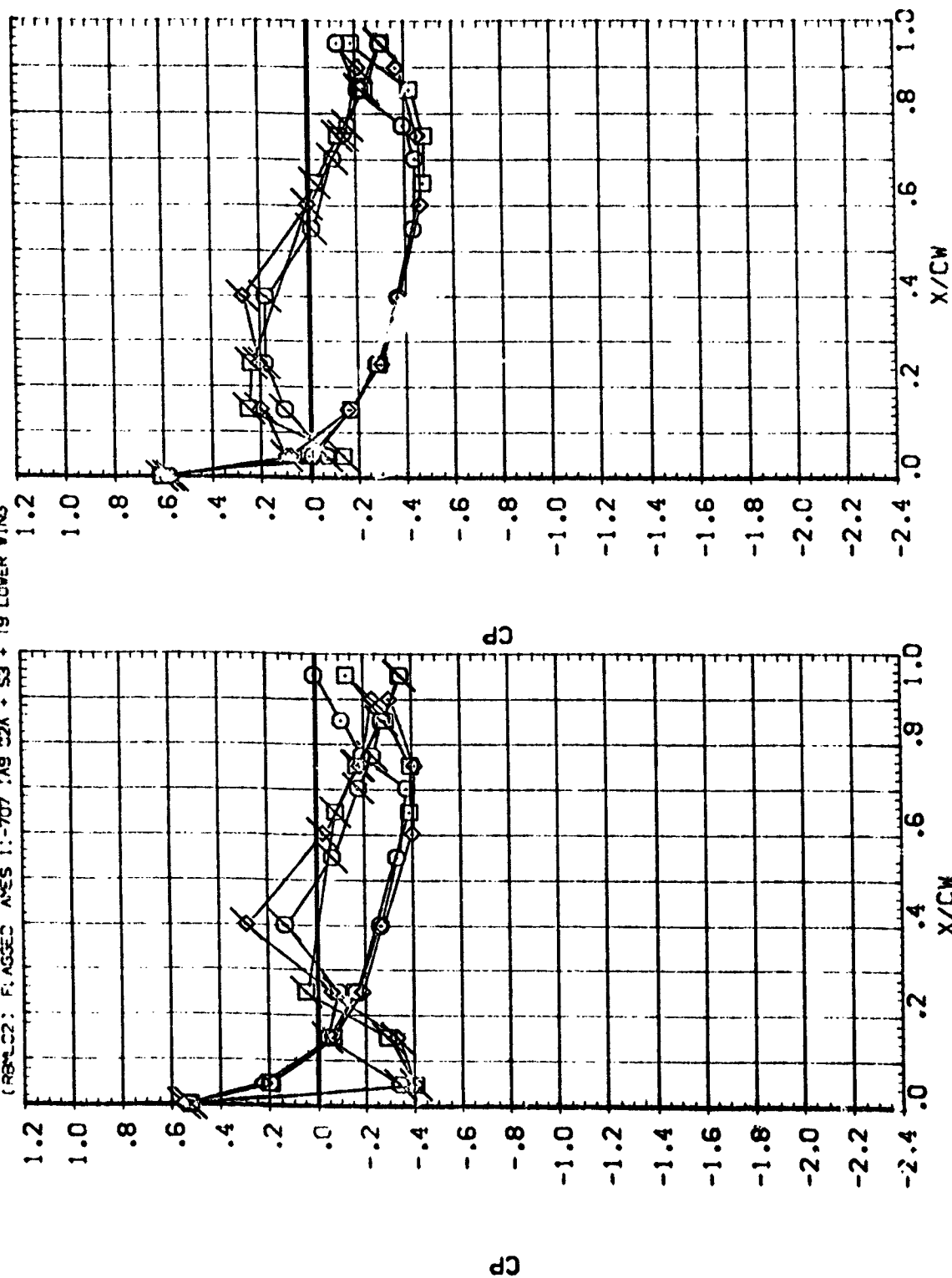
CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES



SYMBOL Y/BV ALPHA MACH
□ .673 -3.580 1.40
○ .780 .040
◇ .887

PARAMETRIC VALUES
BETAT .000 0.081 NC .500
RUDDER .000 ELEVON .000
RUDDER .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(REF-02) OPEN ASES 11-707 (A9 02A + S3 + T9 UPPER WING
(REF-02) FLAGGED ASES 11-707 (A9 02A + S3 + T9 LOWER WING



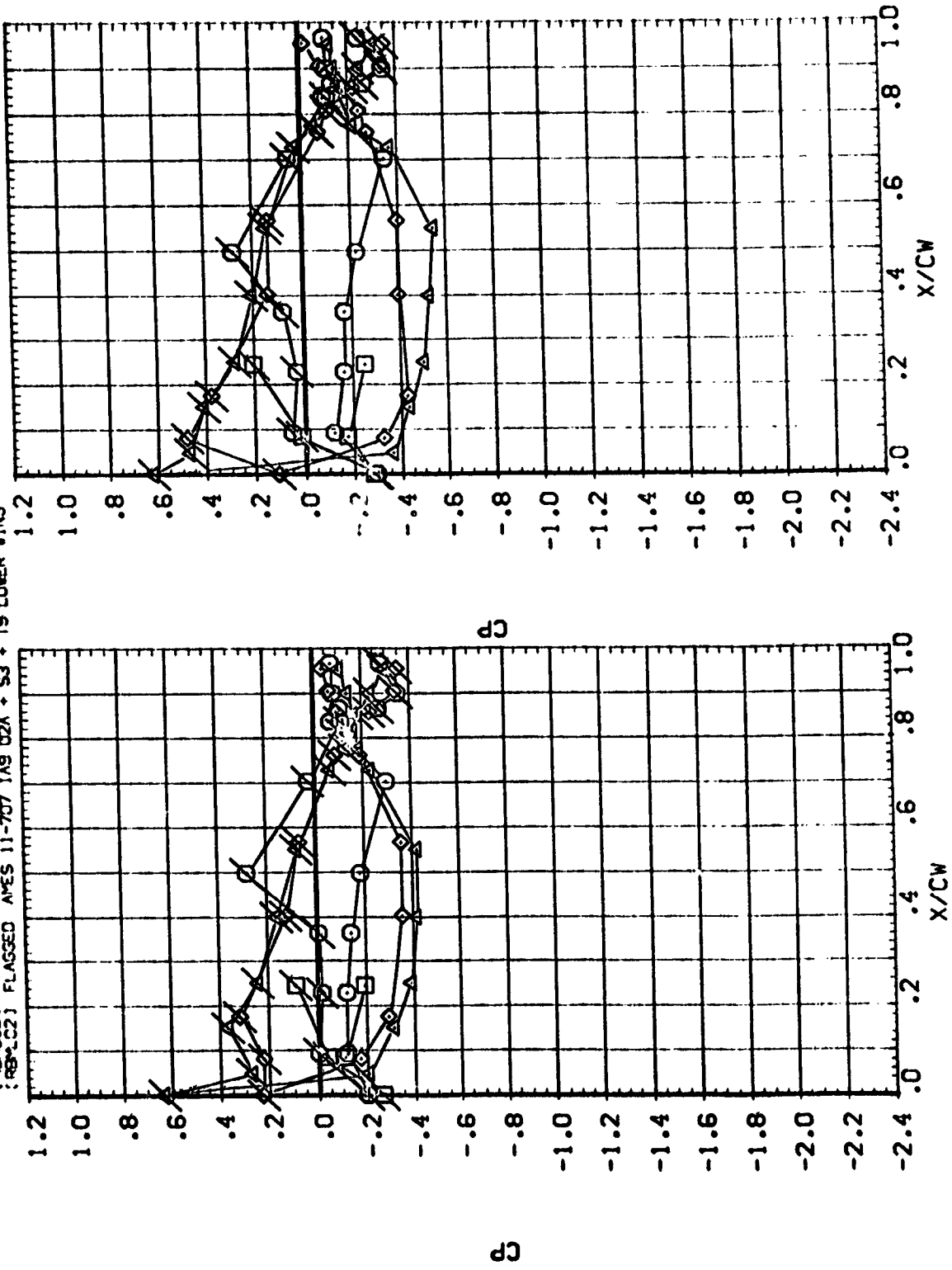
CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

4444

PARAMETRIC VALUES
 BETA: .000 ORBINC .500
 RUDDER .000 ELEVON .000
 RUSLR .000

Y/BV .299
 .364
 .427
 .534
 SYMBOL
 O
 □
 ◇
 △

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RBM-C2) OPEN AMES 11-707 1A9 02A + S3 + T9 UPPER WING
 (RBM-C2) FLAGGED AMES 11-707 1A9 02A + S3 + T9 LOWER WING



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES



SYMBOL
O
O
O
O

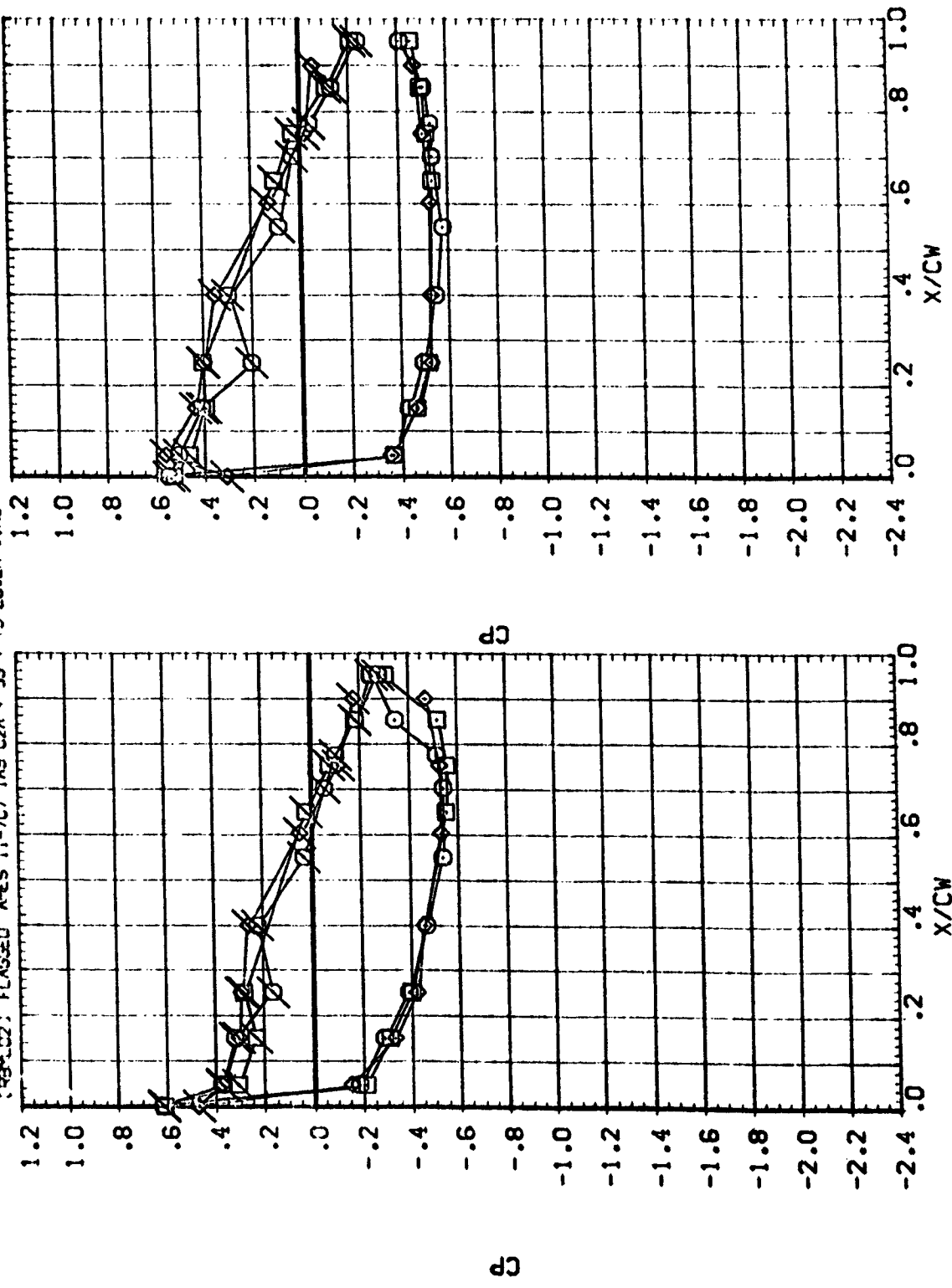
Y/BN
.573
.78C
.887

ALPHA
3.950
7.990

MACH
1.401

PARAMETRIC VALUES
BETAT .000 ORBINC .500
RUDDER .000 ELEVON .000
RUDDLR .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(RPL02) OPEN ASES 11-707 1A9 02A + S3 + 19 UPPER WING
(RPL02) FLAGGED ASES 11-707 1A9 02A + S3 + 19 LOWER WING



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES



SYMBOL
○ □ △

Y/3V
.289
.364
.427
.534

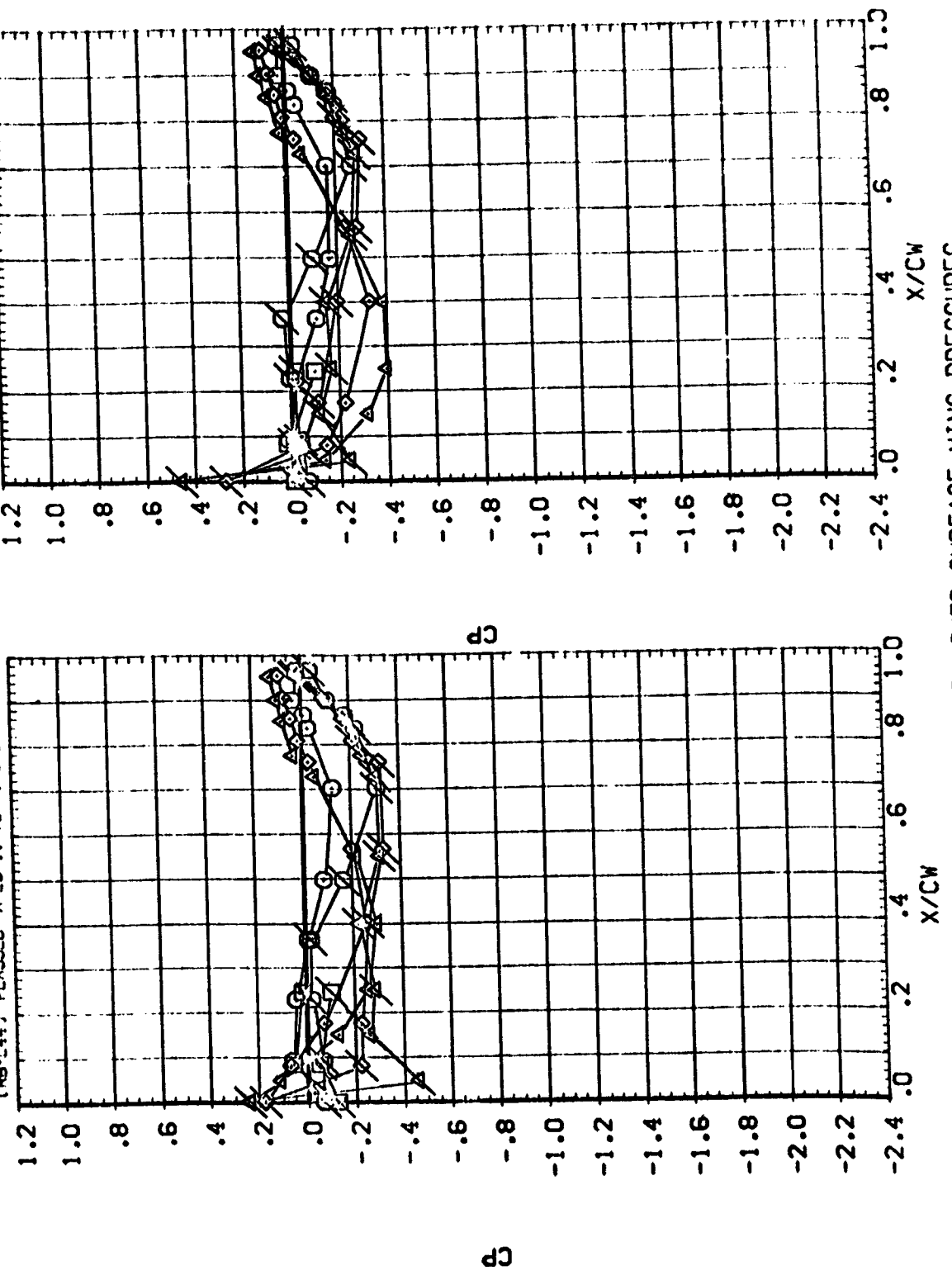
ALPHA
-3.990
.000

MACH
.600

BETAT
R.OOER
R.OOER

PARAMETRIC VALUES
.000
.000
-1.230
ELEVON
.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(R00-44) OPEN ASES 11-707 1A9 02A + S3 + T9 UPPER WING
(R00-44) FLAGGED ASES 11-707 1A9 02A + S3 + T9 LOWER WING



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

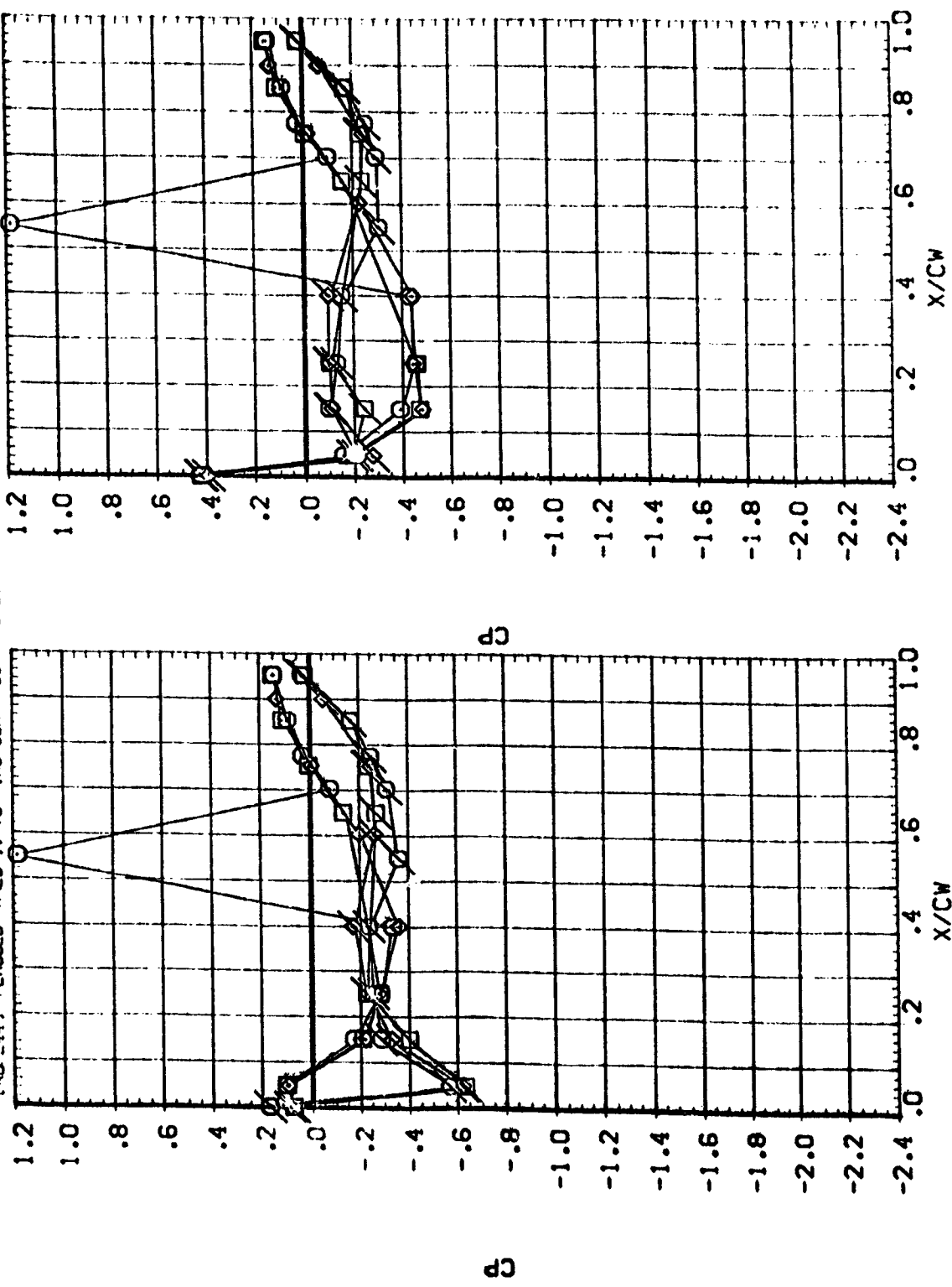
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SYNOPSIS
()
=

Y/BN .673
ALPHAAT -3.990
MACH .600
RUBEN .780
FLAGGED .060
T9 .987

PARAMETRIC VALUES
BETAT .000
RUBEN .000
ELEVON .000
RUBEN -1.200
ELEVON .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(RUBEN) OPEN AVES 11-707 AS 02A + S3 + T9 UPPER WING
(RUBEN) FLAGGED AVES 11-707 AS 02A + S3 + T9 LOWER WING



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

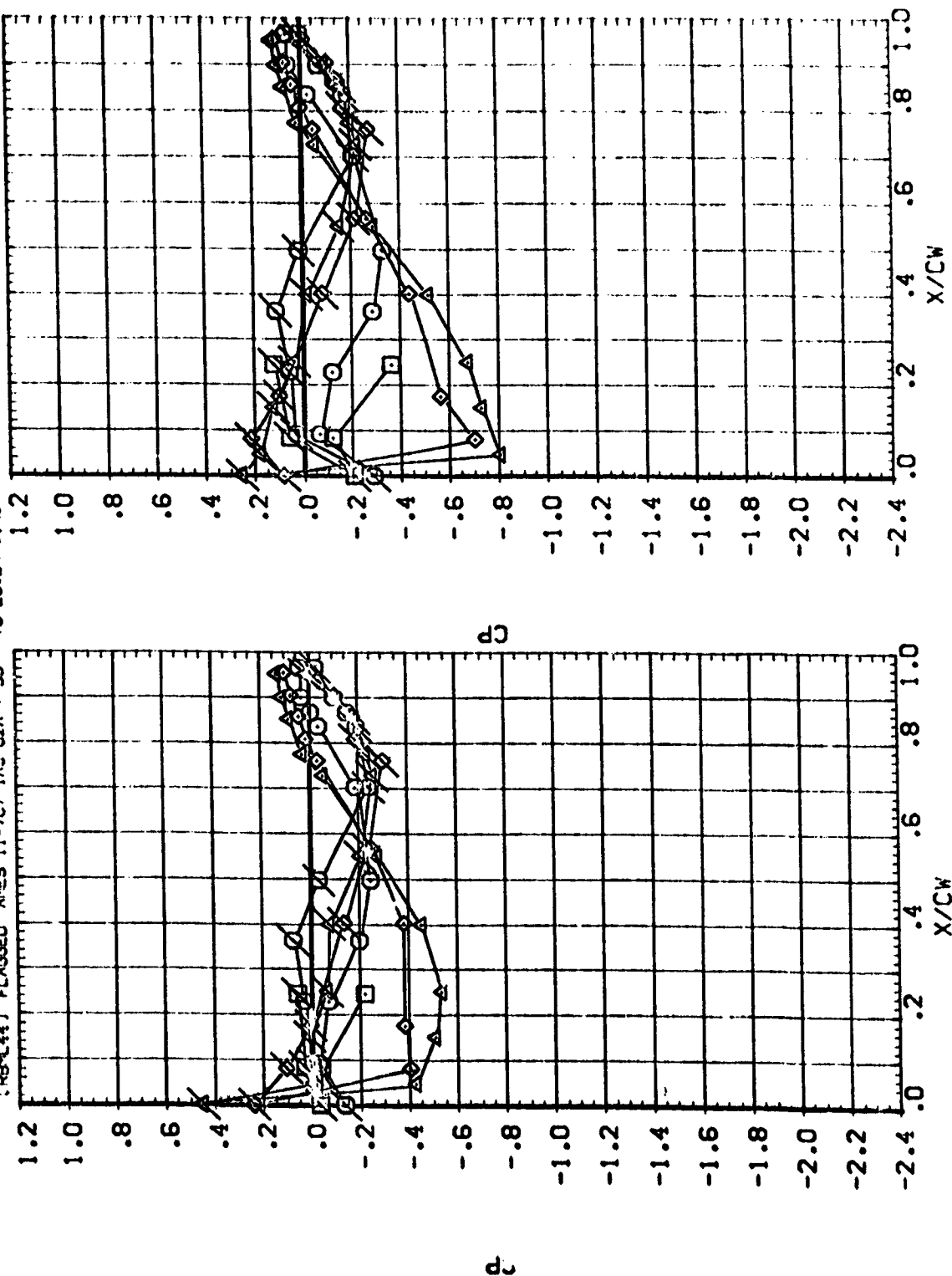


SYMBOL Y/BV
 ○ .299
 ◇ .364
 △ .427
 △ .534

ALPHA MACH
 4.010 .600
 8.020

PARAMETRIC VALUES
 BETAT .000
 RUDER .000
 RUDLR .000
 DRBINC -1.200
 ELEVEN .000

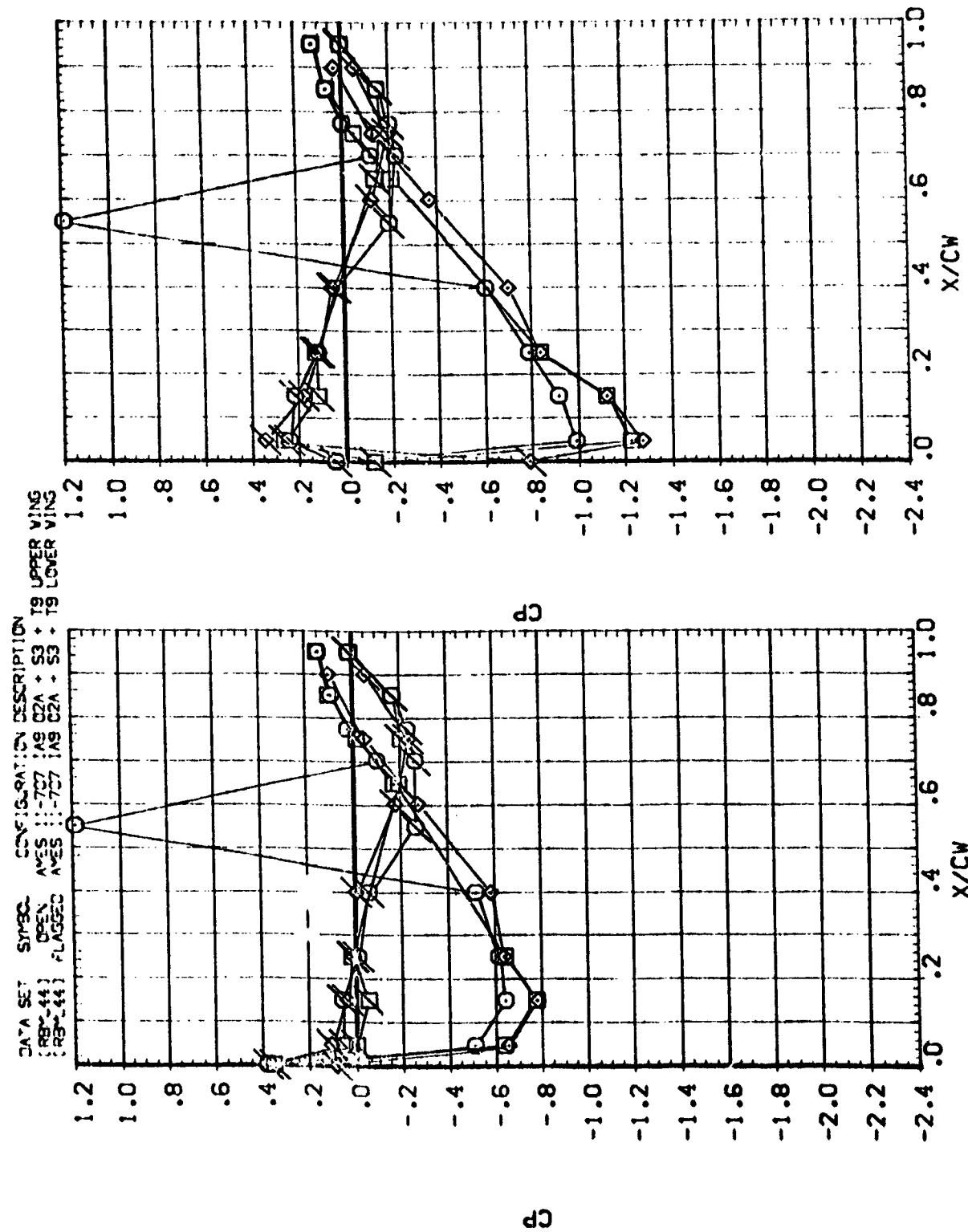
DATA SET SYMBOL CONFIGURATION DESCRIPTION
 [RB-44] OPEN ANES 11-707 1AS C2A + S3 + T9 UPPER VING
 [RB-44] FLAGGED ANES 11-707 1AS C2A + S3 + T9 LOWER VING



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

SYMBOL Y/BN ALPHAAT MACH .600 .800
 .573 4.010
 .780 8.020
 .890

PARAMETRIC VALUES
 BETAT .000 ORBINC -1.200
 RUDDER .000 ELEVON .000
 RUDDER .000



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

PARAMETRIC VALUES

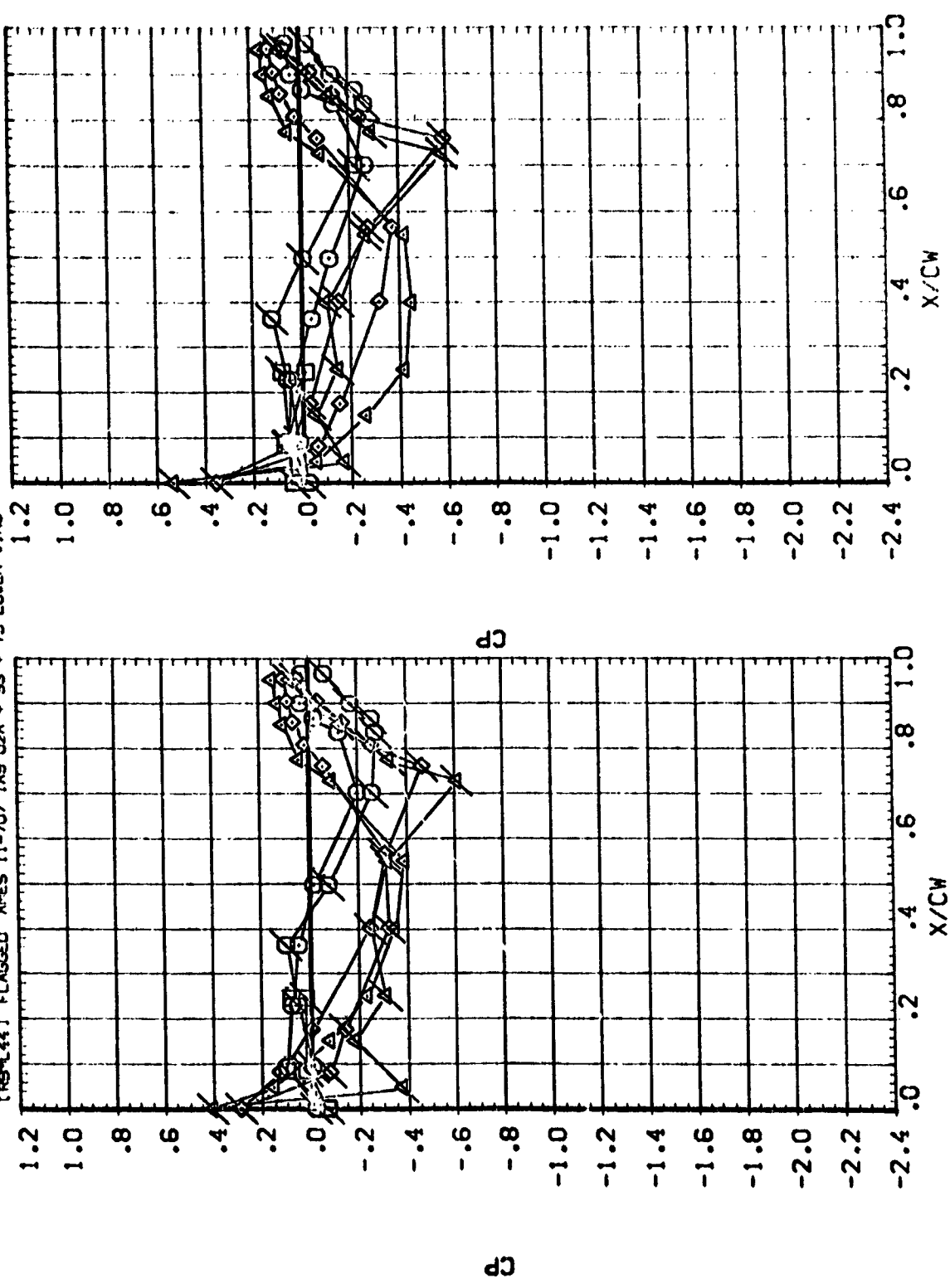
BETAT	.000	SRB'NC	-1.200
RUDER	.000	ELEVON	.000
RUDFLR	.000		

SYMBOL Y/BV ALPHAT MACH

△	.298	-4.020	.901
○	.364	.010	
◇	.427		
▽	.534		

DATA SET SYMBOL CONFIGURATION DESCRIPTION

[RB-44]	OPEN	APES 11-707 IAS 02A + S3 + T9 UPPER WING
[RB-44]	FLAGGED	APES 11-707 IAS 02A + S3 + T9 LOWER WING

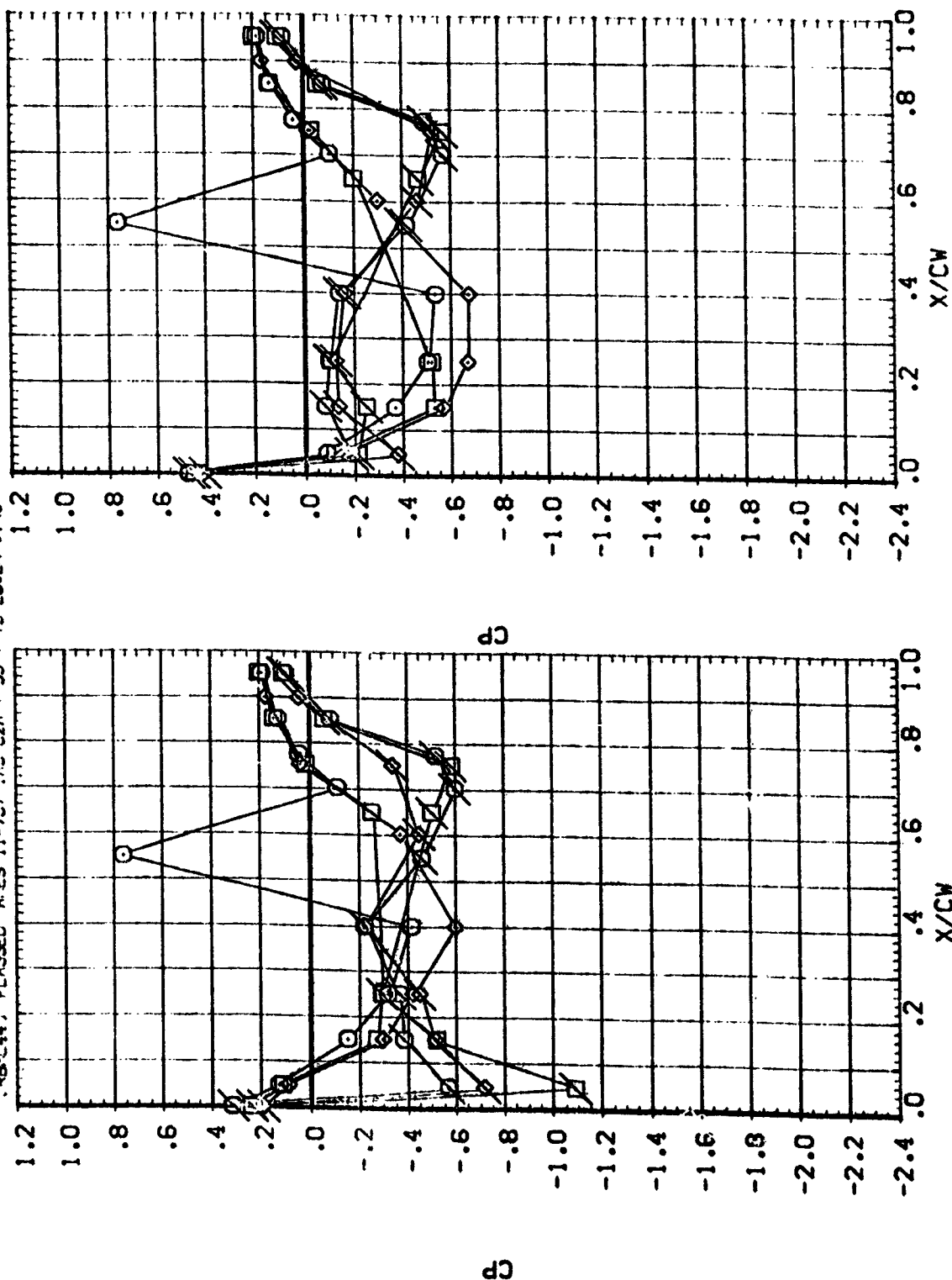


CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

BETA
RUDDER
RUDDER

SYMBOL	Y/BV	A ₀ -VAL	MACT
◇	.687	.010	.901
□	.780	-4.020	
○	.673		

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
OPEN	AMES 11-707 1A9	C2A + S3 + T9 UPPER VING
FLAGGED	AMES 11-707 1A9	C2A + S3 + T9 LOWER VING



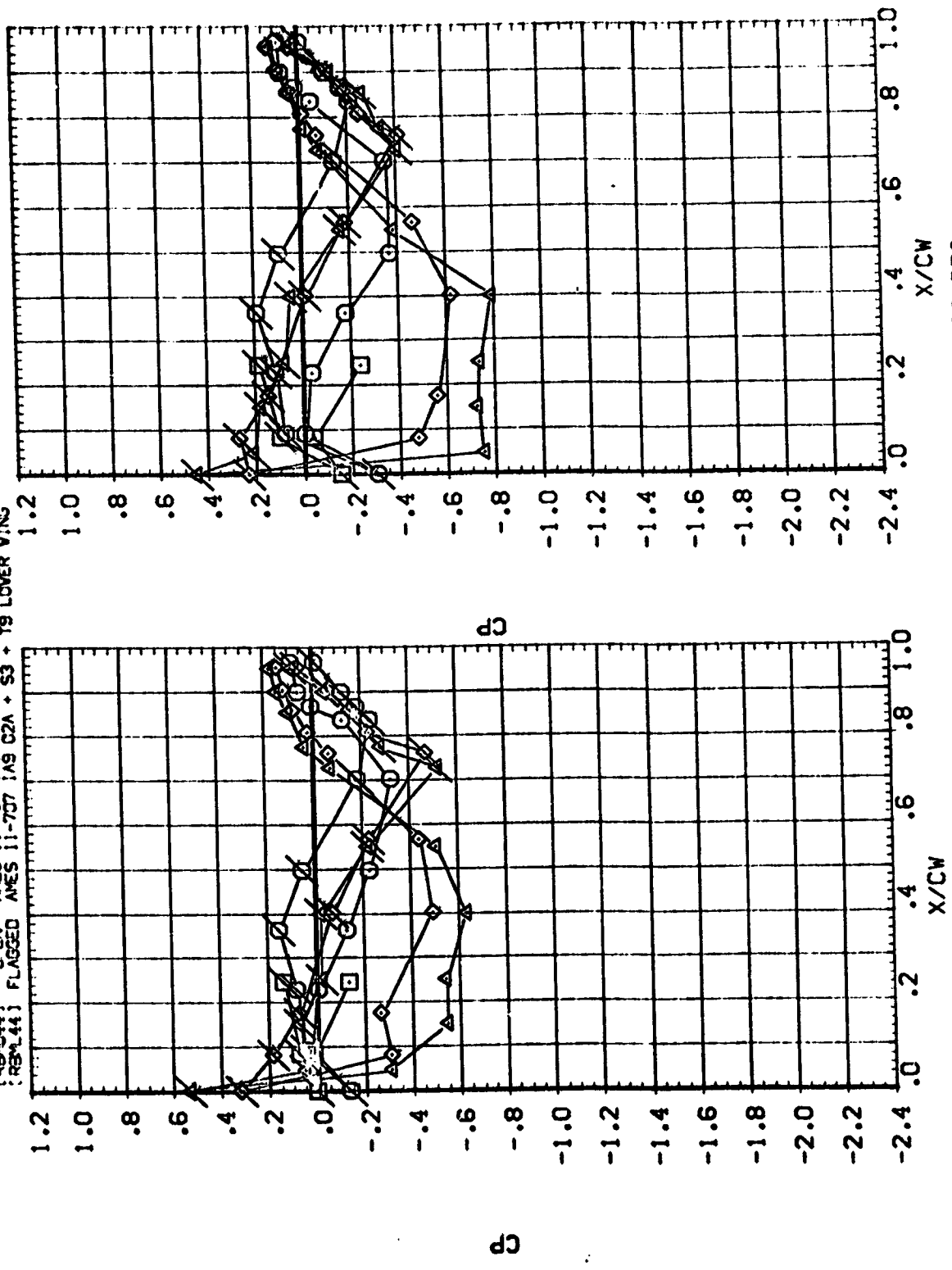
CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

DATA

PARAMETRIC VALUES
 BETAT .000 CRBINC -1.200
 RUDDER .000 ELEVON .000
 RUOFLR .000

SYMBOL V/BV ALPHA MACH
 .299 4.010 .901
 .364 7.990
 .427
 .534

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RBM44) CPEN AYES 11-707 1A9 02A + S3 + T9 UPPER WING
 (RBM44) FLAGGED AYES 11-707 1A9 02A + S3 + T9 LOWER WING



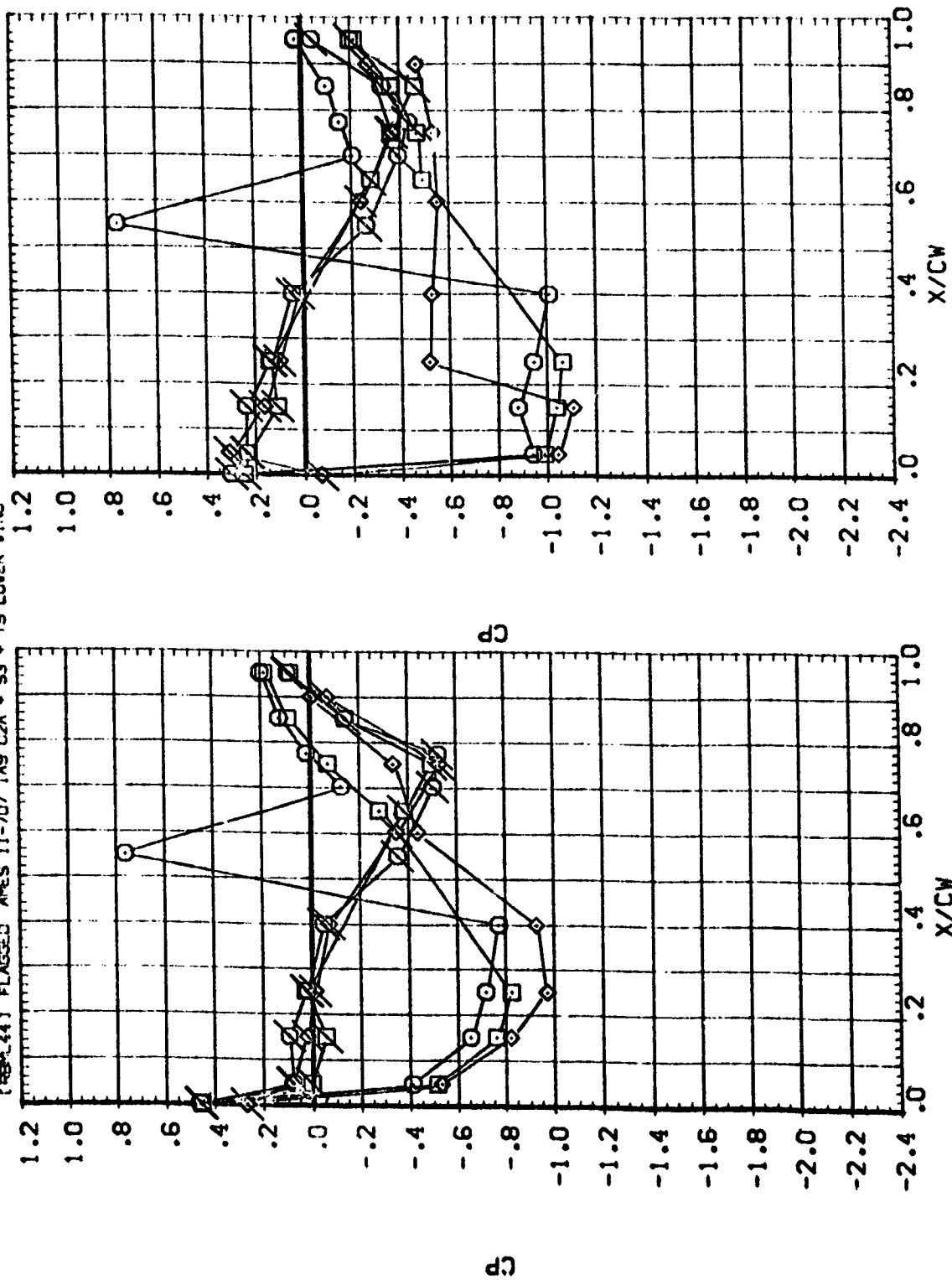
CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

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SYMBOL V/BV ALPHAT MACH
 O .673 4.010 .90:
 □ .780 7.990
 ◇ .887

PARAMETRIC VALUES
 BEYAT .000 CRBINC -1.200
 RUDDER .000 ELEVON .000
 RUDSLR .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RBM-44) OPEN AYES 11-707 1A9 C2A + S3 + T9 UPPER WING
 (RBM-44) FLAGGED AYES 11-707 1A9 C2A + S3 + T9 LOWER WING



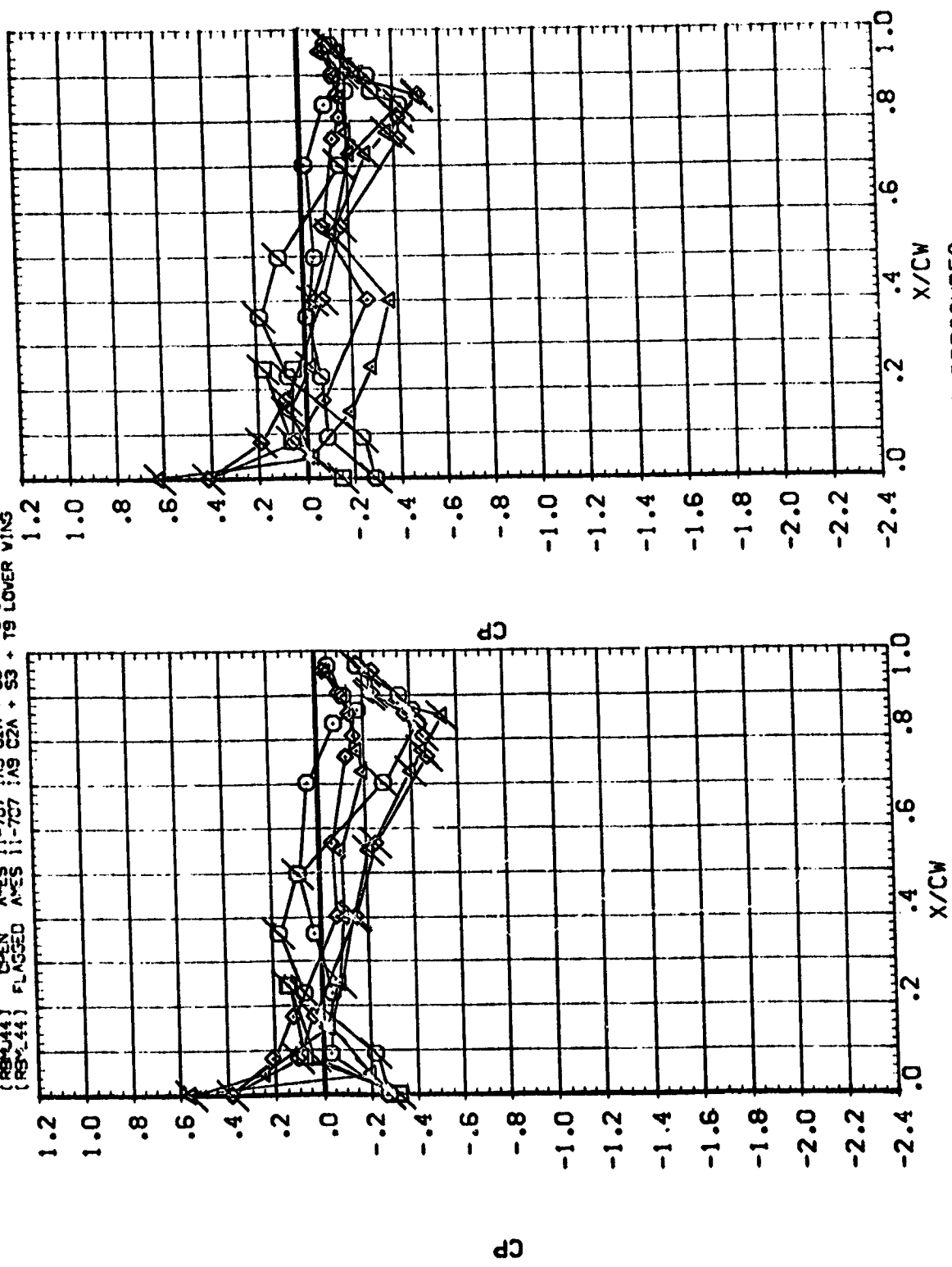
CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

1-200

PARAMETRIC VALUES
 BETAT .000
 RUDER .000
 RUDFLR .000
 ORBINC -1.200
 ELEVON .000

SYMBOL Y/BV ALPHA MACH
 .289 -3.970 1.103
 .364 .030
 .427
 .534

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RBM44) OPEN AXES 11-707 : A9 O2A + S3 + T9 UPPER VING
 (RBM44) FLAGGED AXES 11-707 : A9 O2A + S3 + T9 LOWER VING



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

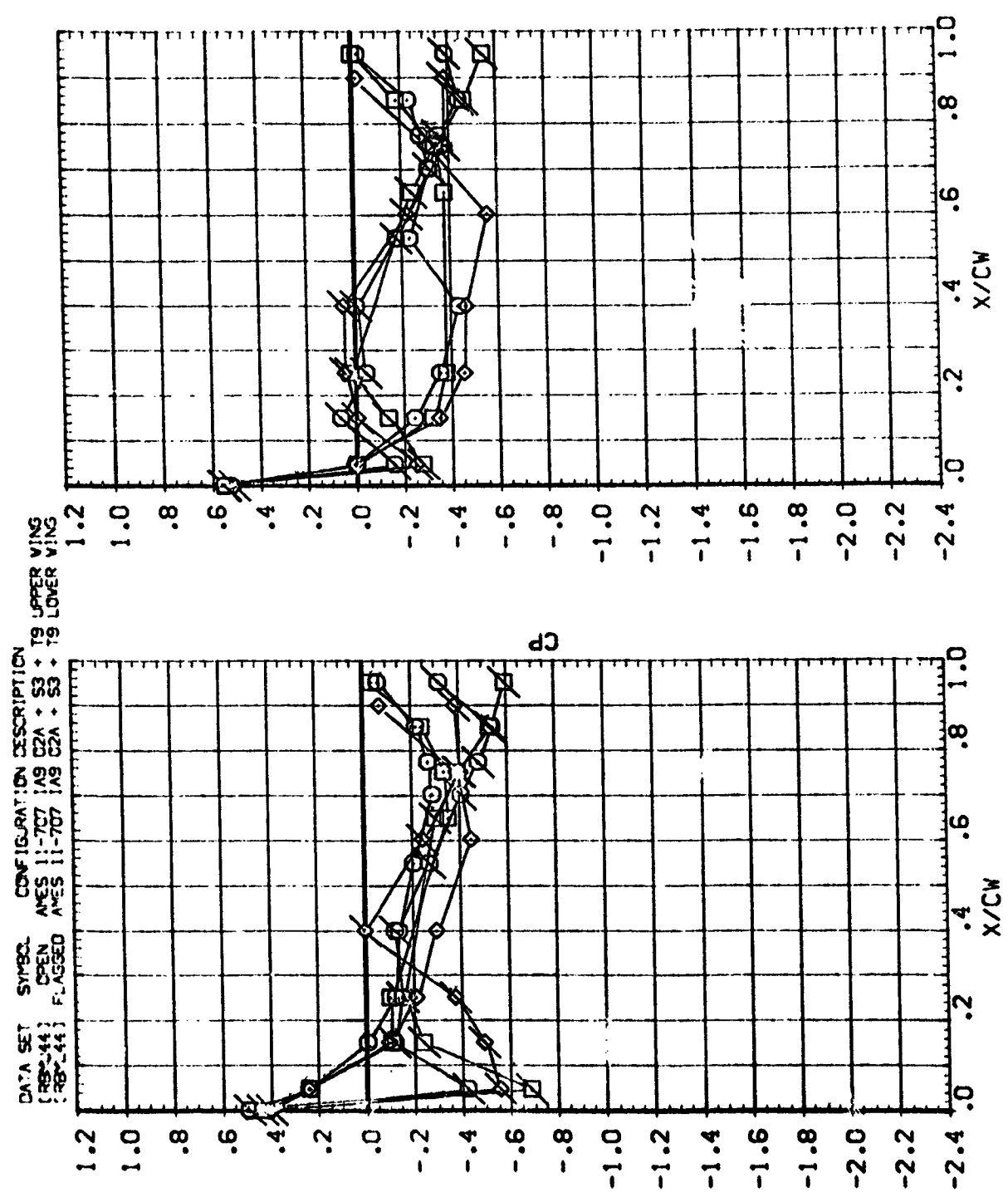
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SYNOPSIS
Y/BV .673
.78C
.887

A-DAT MACH
-3.97C 1.103
.030

PARAMETRIC VALUES
BETA' .000
RUDDER .000
RUDLER .000

ORBITING -1.200
ELEVON .000



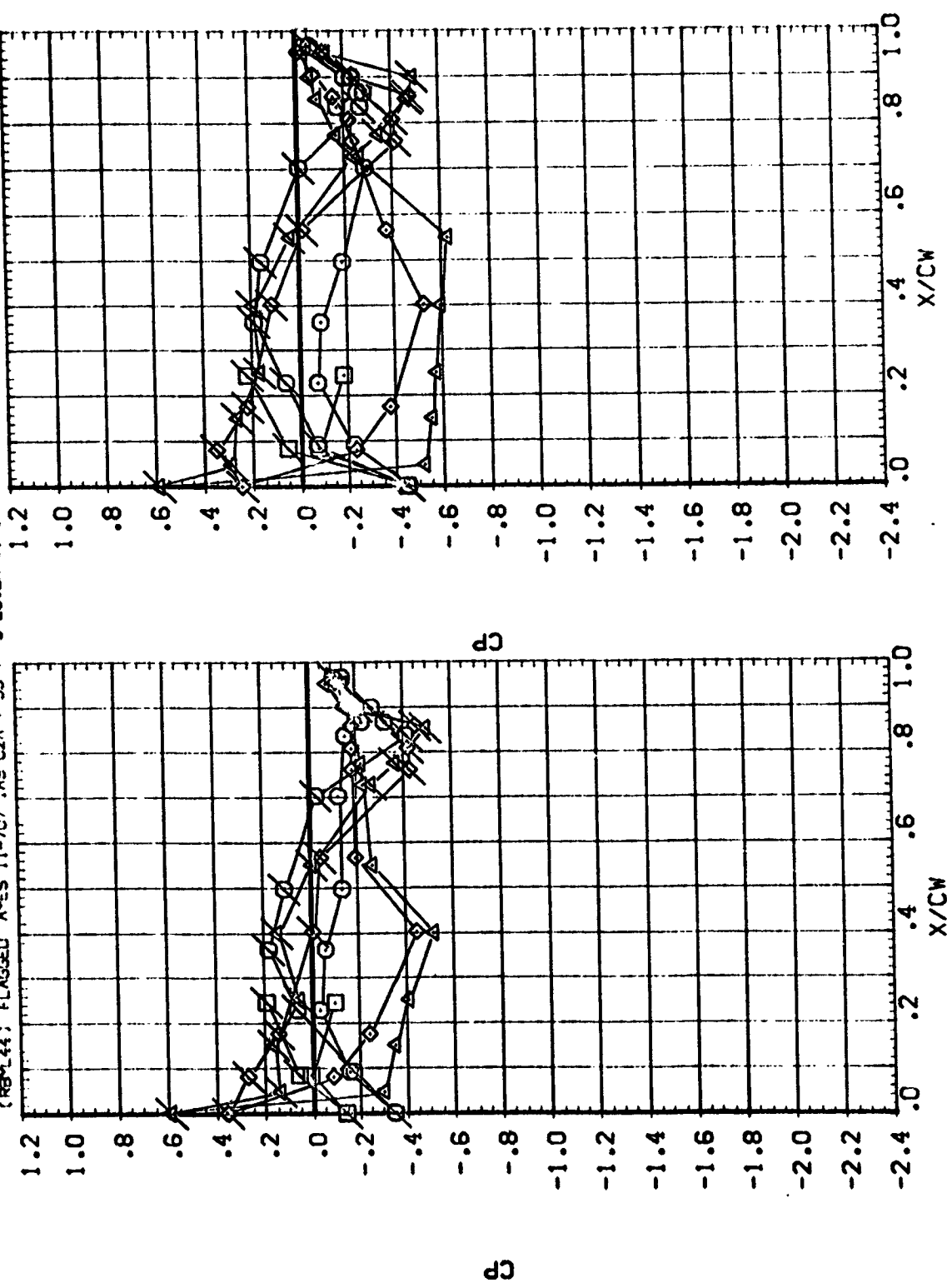
CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

4-1004

PARAMETRIC VALUES
 BETAT .000 D99:NC -1.200
 RUDDER .000 ELEVON .000
 RUJFLR .000

SYMB: V/BN ALPHAT MACH
 .299 3.980 1.103
 .364 8.010
 .427
 .534

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RBM-44) OPEN AVES 11-707 AS C2A + S3 + T9 UPPER WING
 (RBM-44) FLAGGED AVES 11-707 AS C2A + S3 + T9 LOWER WING



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES



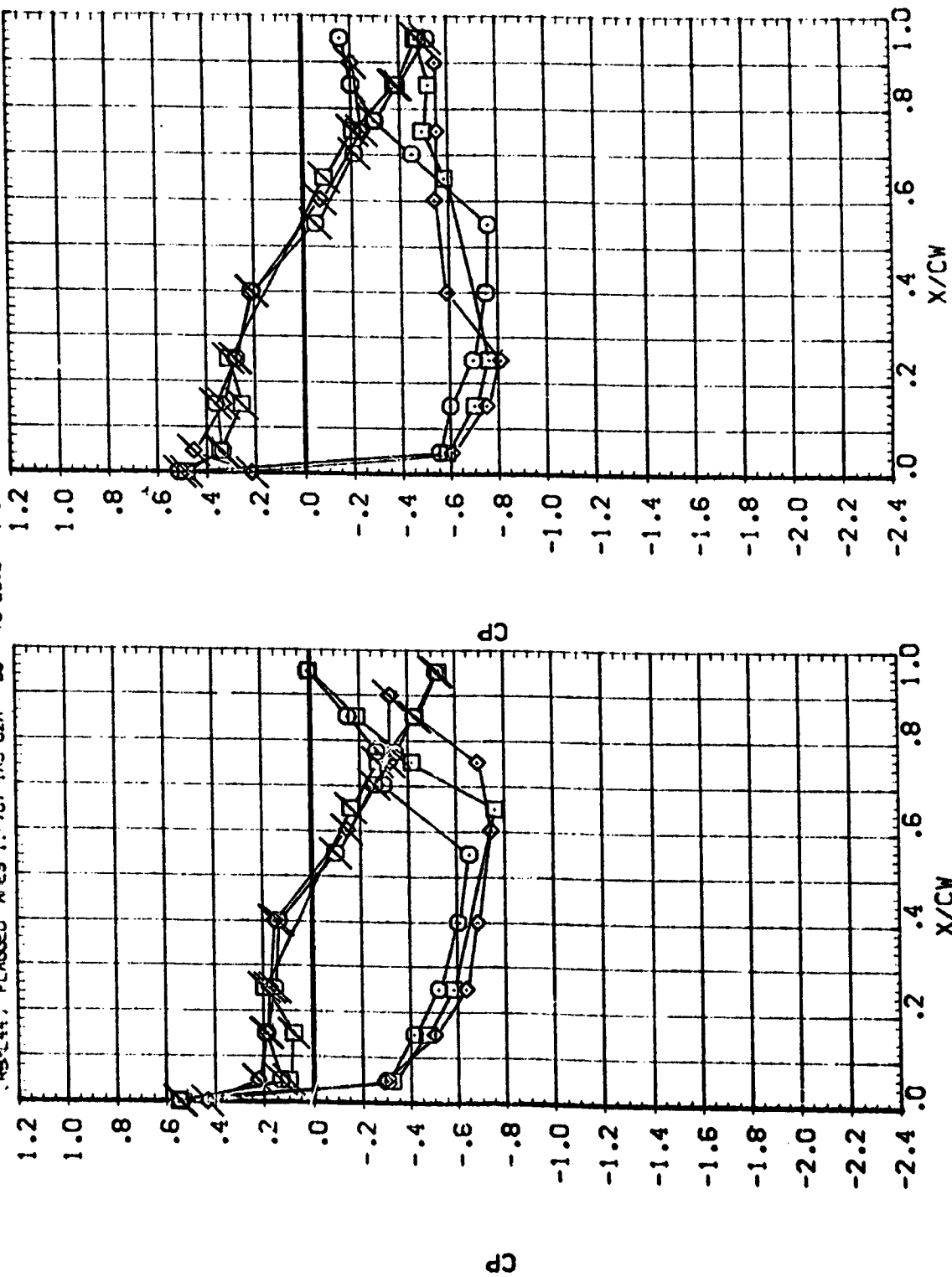
SYMBOL Y/BV
□ .573
○ .78C
◇ .887

ALPHA
3.980
8.010

MACH
1.103

PARAMETRIC VALUES
BETAT .000
RLODER .000
RLOFLR .000
ORRINC -1.000
ELEVON .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(RBM-44) OPEN APES 11-707 : AS C2A + S3 + 19 UPPER WING
(RBM-44) FLAGGED APES 11-707 : AS C2A + S3 + 19 LOWER WING



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

PARAMETRIC VALUES

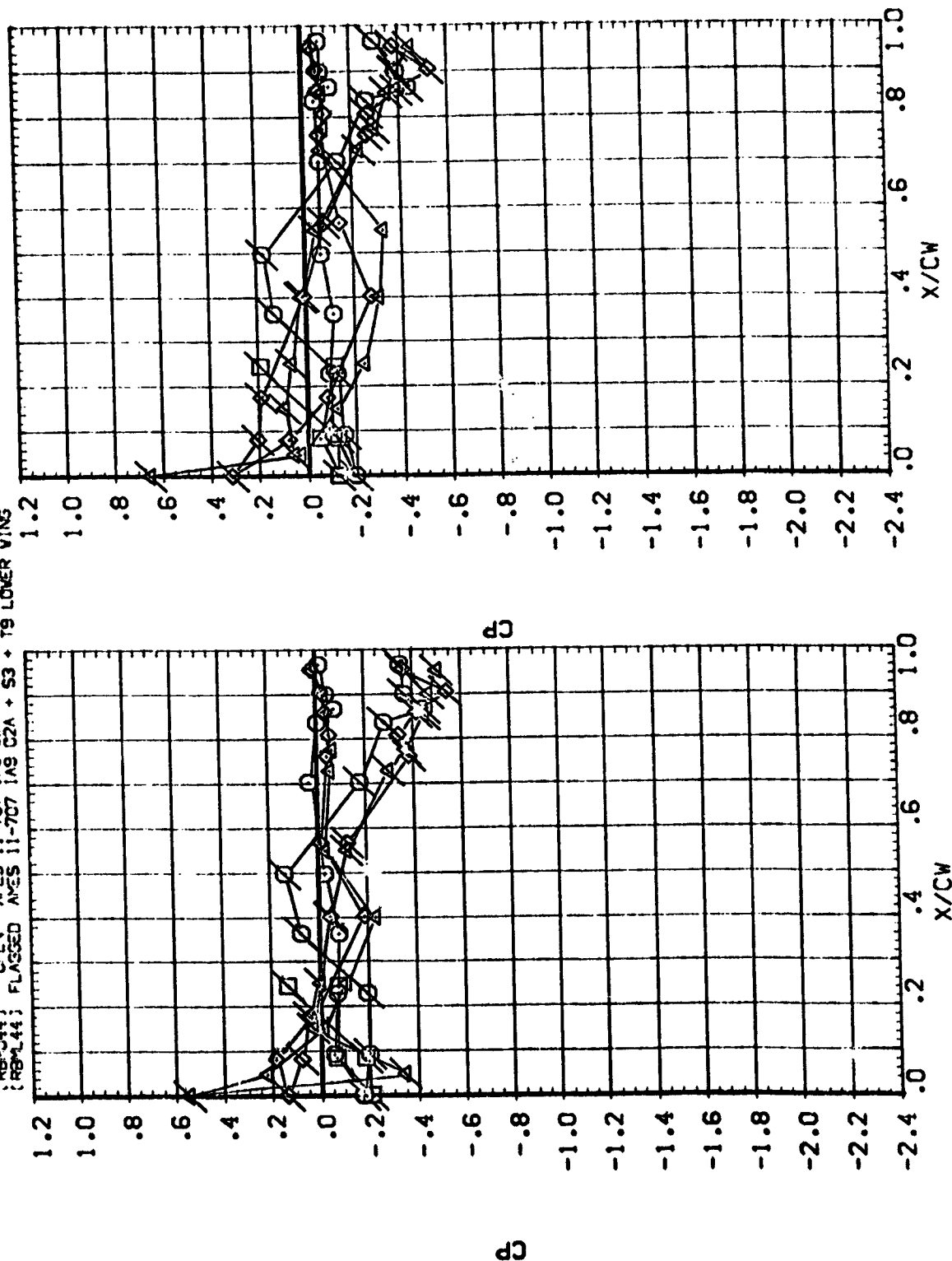
BETA	.000	OSBINC	-1.200
RJCOER	.000	ELEVON	.000
RJOFER	.000		

SYMBOL Y/BV ALPHA WACH

◇	.299	-3.960	1.247
□	.364	.020	
○	.427		
△	.534		

DATA SET SYMBOL CONFIGURATION DESCRIPTION

[RBMJ44]	OPEN	AVES 11-707 [A9 C2A + S3 + T9 UPPER WING
[RBMJ44]	FLAGGED	AVES 11-707 [A9 C2A + S3 + T9 LOWER WING



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

5-15-68

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VALUES

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0.020

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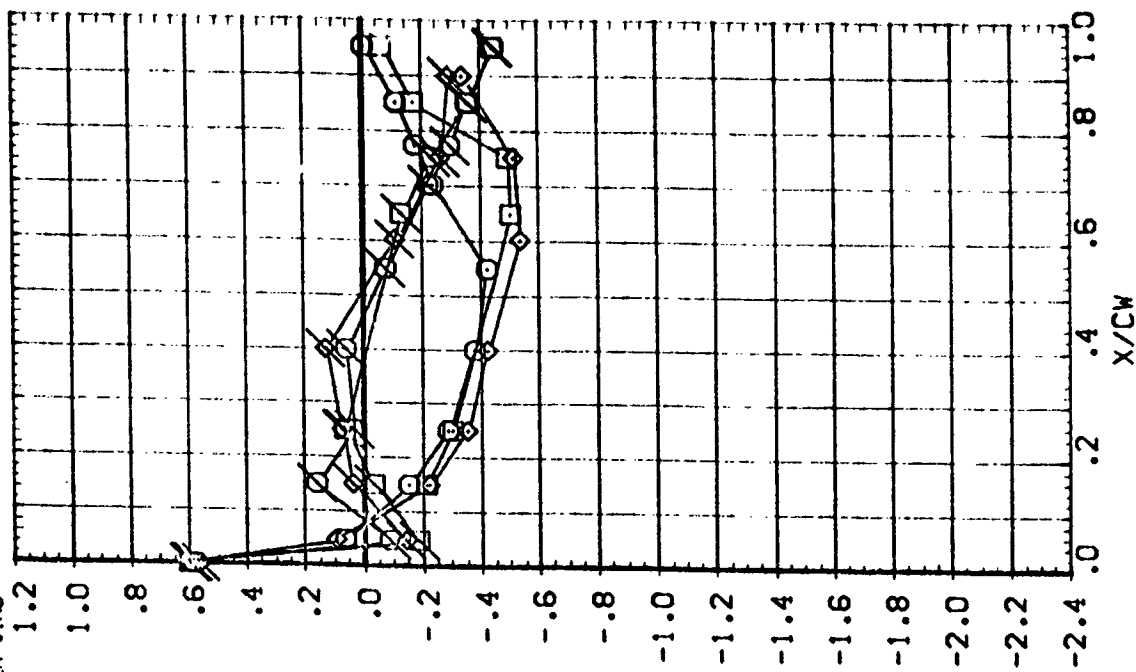
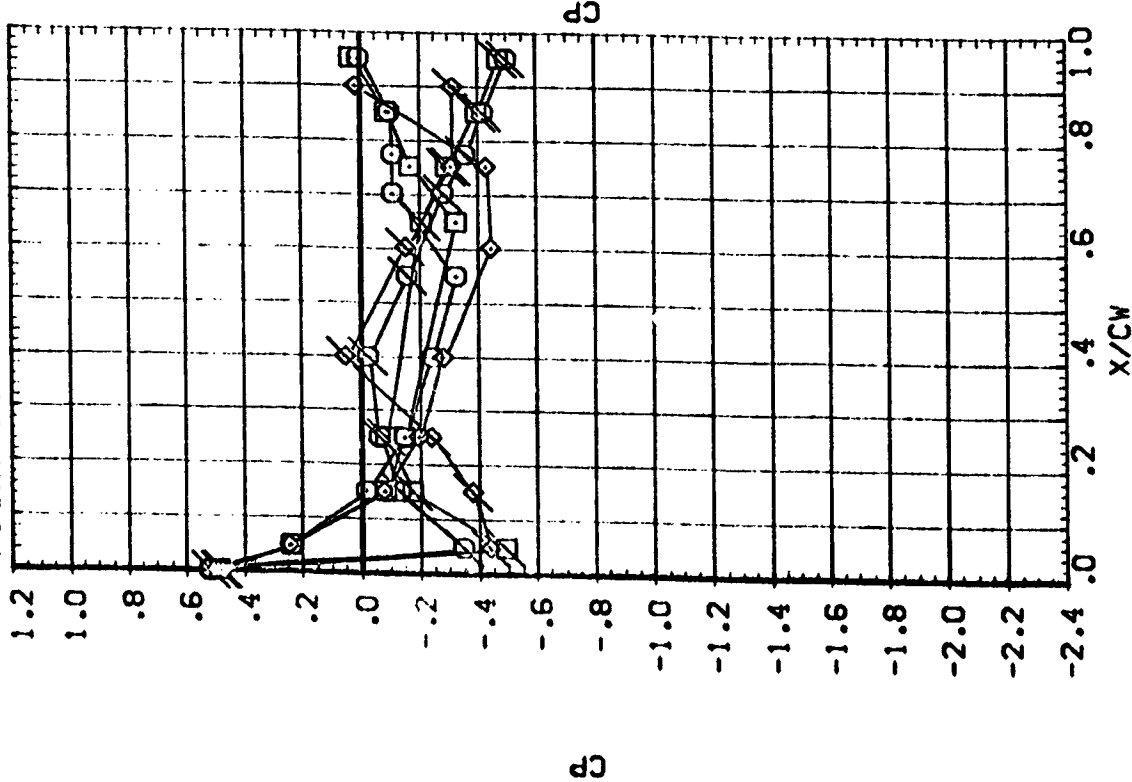
888

2013-11-15

27.1-

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
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4	4	4
5	5	5
6	6	6
7	7	7
8	8	8
9	9	9
10	10	10
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12	12	12
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92	92	92
93	93	93
94	94	94
95	95	95
96	96	96
97	97	97
98	98	98
99	99	99
100	100	100

[FB%44]	OPEN	AWS	11-707	IAG	G2A	+ S3 +	T9	LOWER	VING
[FB%44]	FLAGGED	AWS	11-707	IAG	G2A	+ S3 +	T9	LOWER	VING



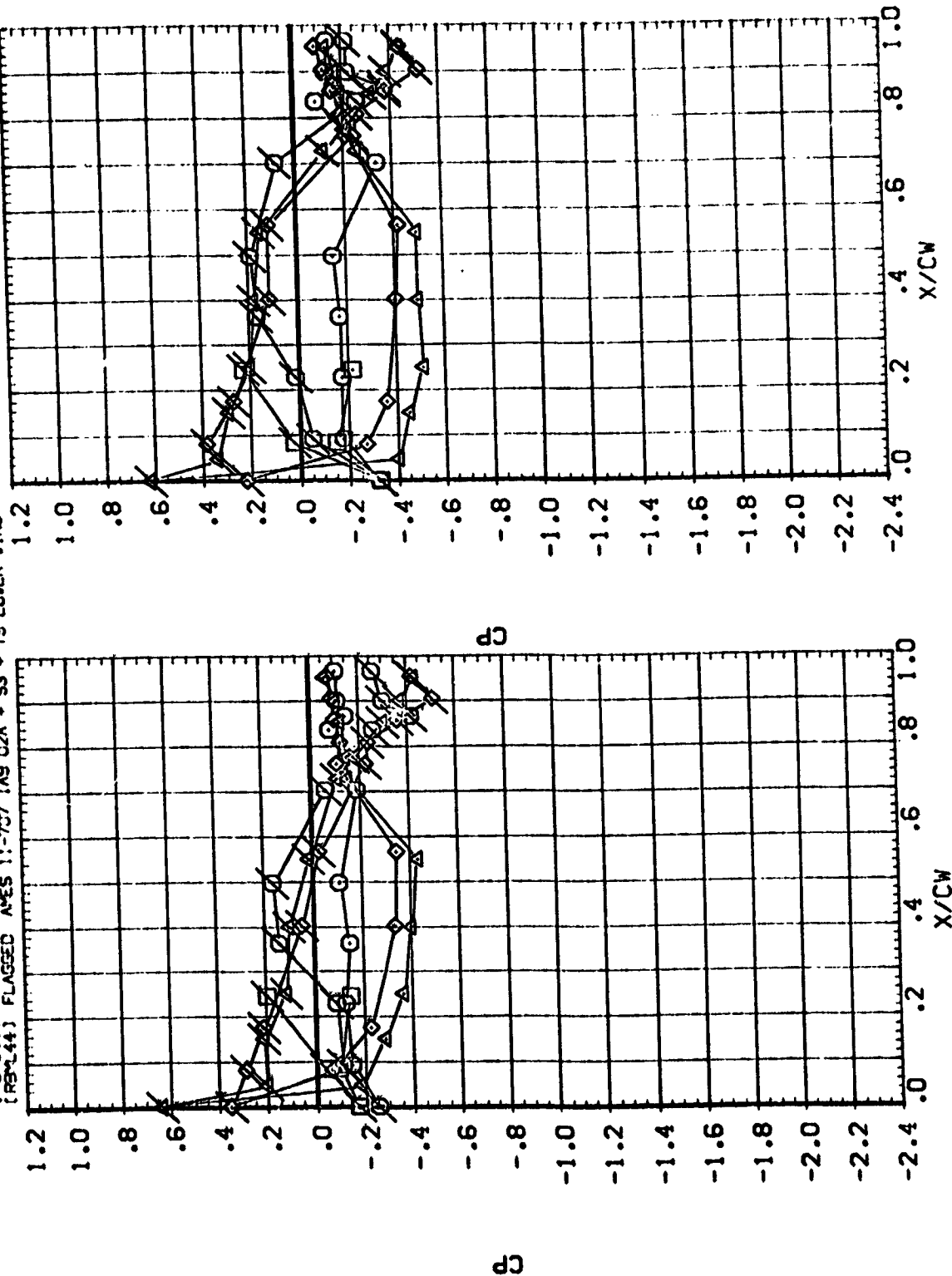
CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

SYMBOL
 ○ □ ◇ △

Y/BV ALPHA MACH
 .299 4.020 1.247
 .364 8.010
 .427
 .534

PARAMETRIC VALUES
 BETAT .000 CRBINC -1.200
 RUDDER .000 ELEVEN .000
 RUOTLR .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 [RBU44] OPEN ASES 11-707 1A9 02A + S3 + T9 UPPER WING
 [RBU44] FLAGGED ASES 11-707 1A9 02A + S3 + T9 LOWER WING

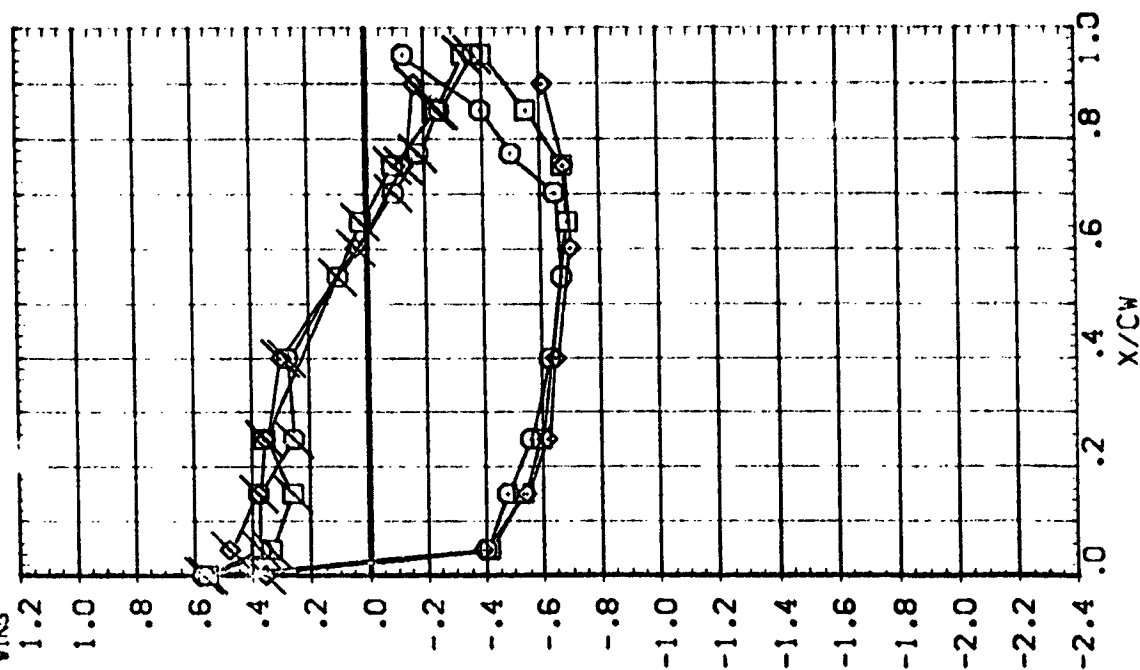
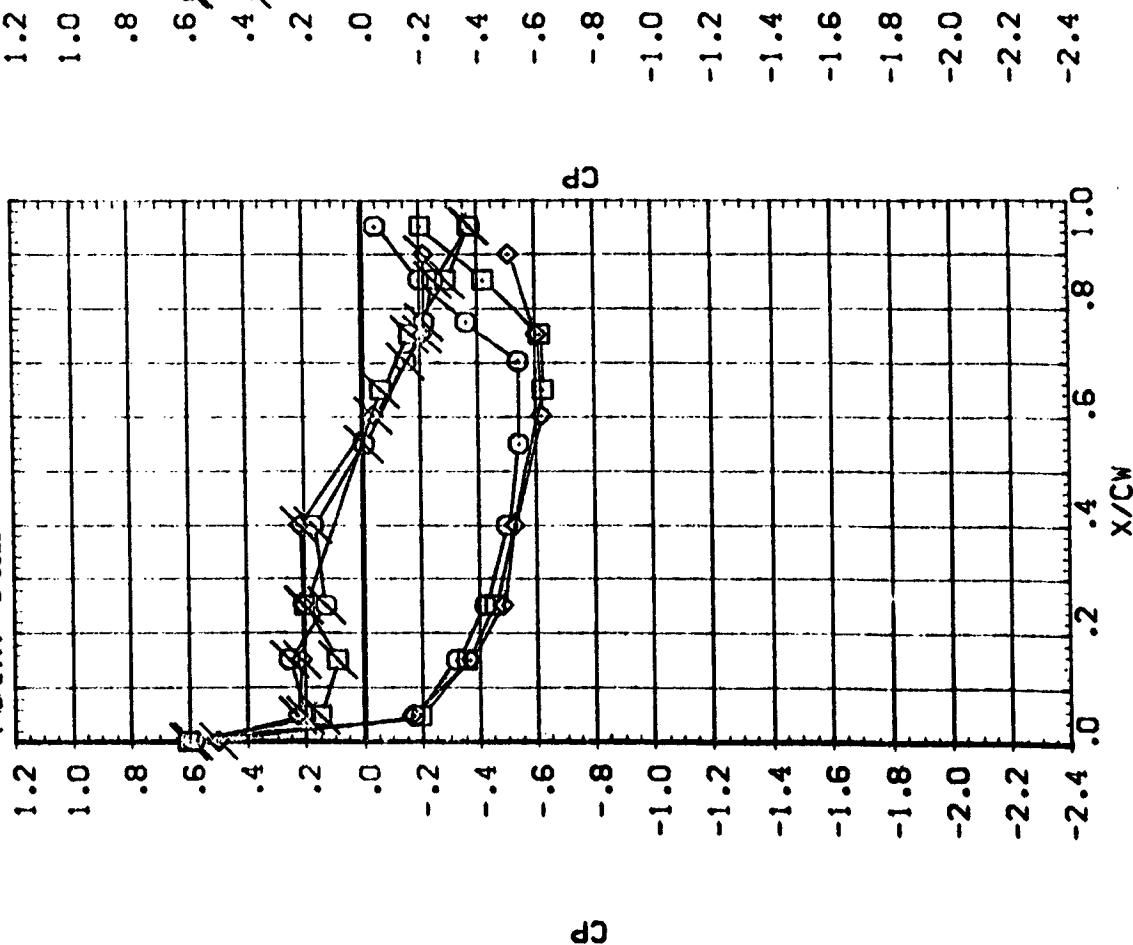


CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

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	PARAMETRIC VALUES
BETA T	.0000
RHOOR	.0000
RHOIR	.0000
	-1.2000

DATA SET	SYMBOL	CONFIGURATION DESCRIPTION
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91	91	91
92	92	92
93	93	93
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95	95	95
96	96	96
97	97	97
98	98	98
99	99	99
100	100	100



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

PARAMETRIC VALUES

ALPHA	-8.000	OSBINC	.500
RJCSER	.000	ELEVON	.000
RJCSLR	.000		

ALPHA

BEAT

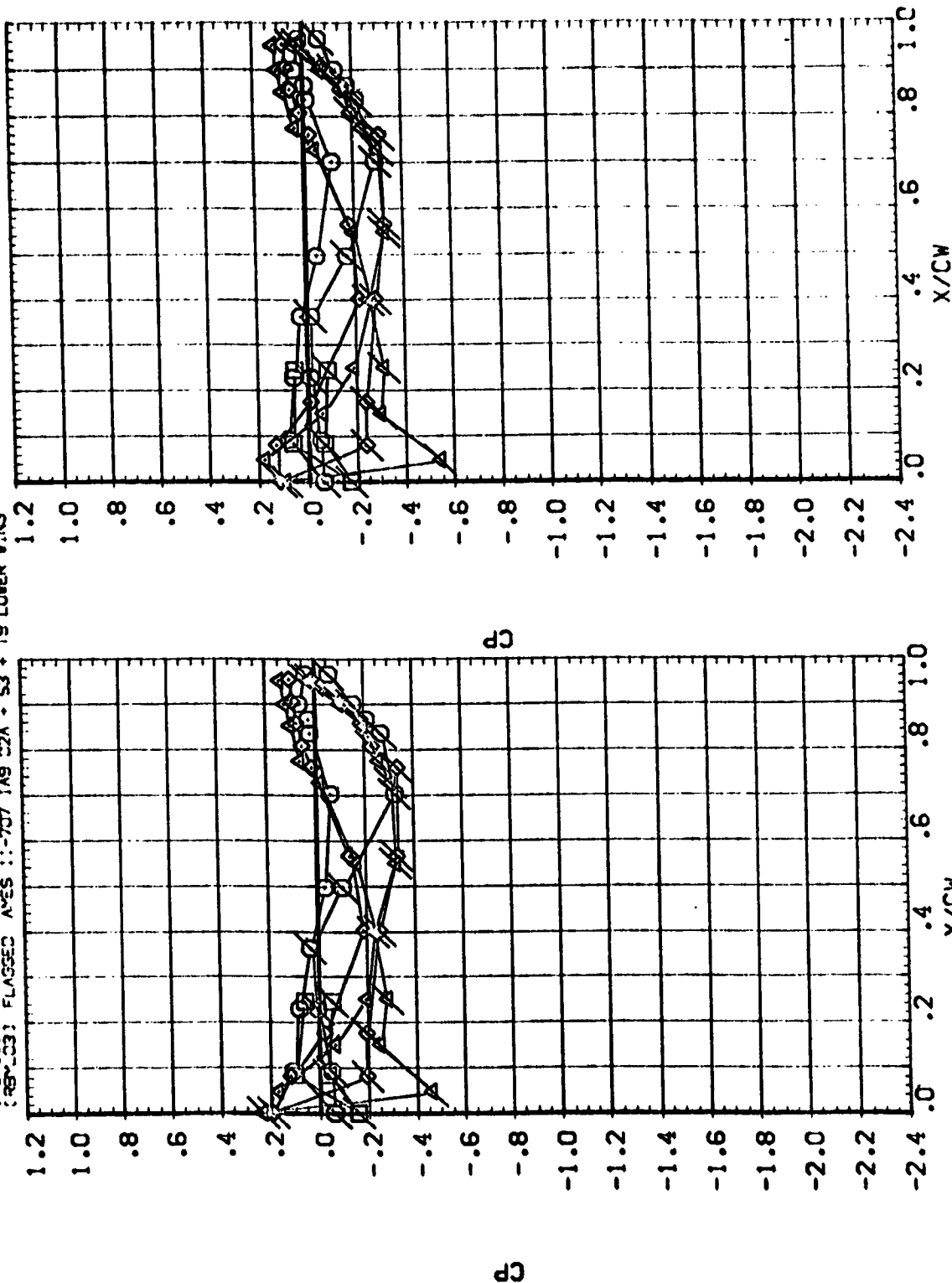
WAC	.599
BEAT	-4.020
BEAT	.020

SYMB

V/BV	.289
BEAT	.364
BEAT	.427
BEAT	.534

DATA SET: SYMB: CONF: G: RATION DESCRIPTION

(R8-03)	OPEN	AVES 11: -707	AS 02A + S3 + T9	UPPER WING
(R8-03)	FLAGED	AVES 11: -707	AS 02A + S3 + T9	LOWER WING



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES



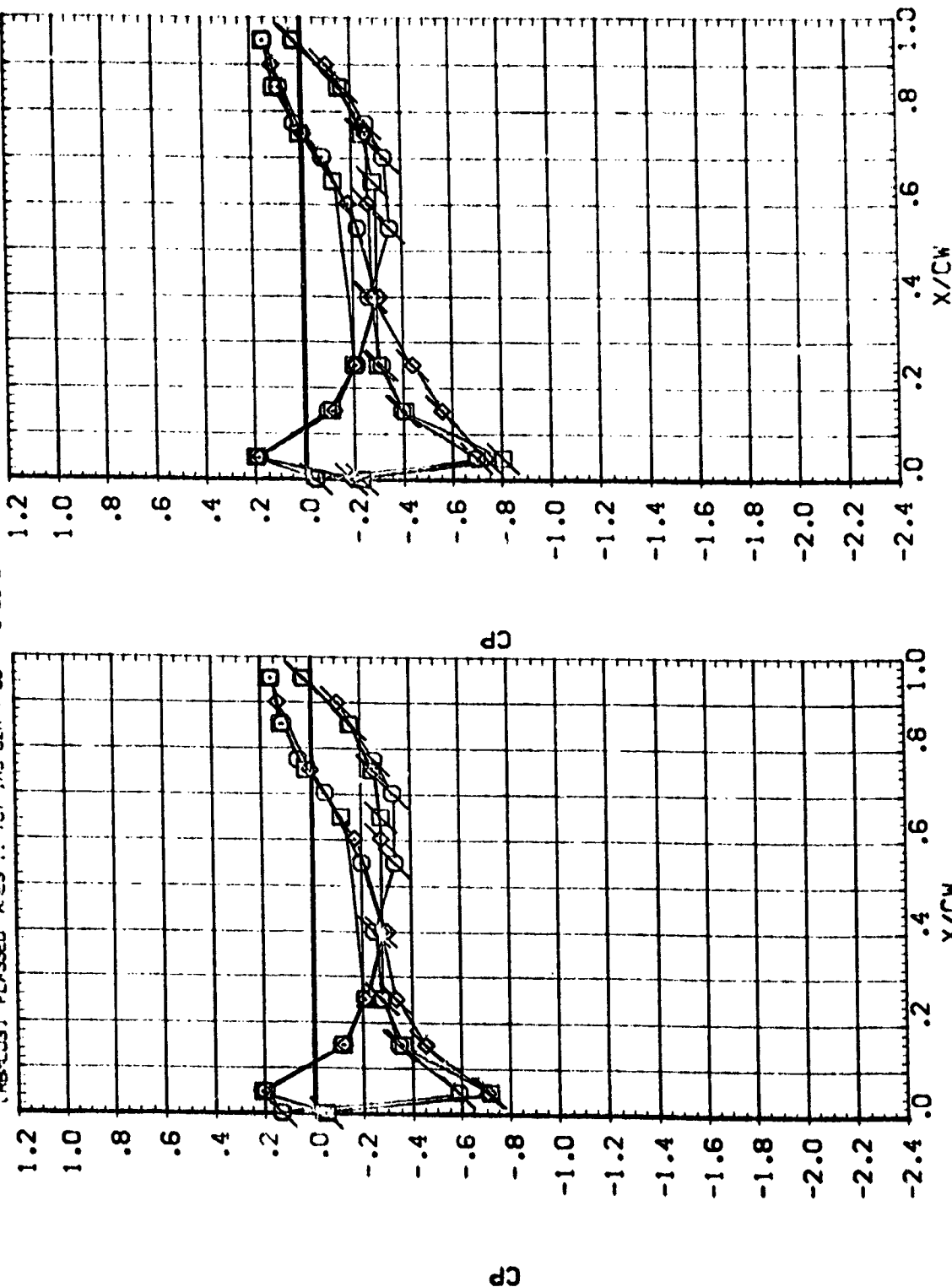
SYNCH. Y/BV .673
 .780
 .887

BETAT -4.020
 .020

MACH .599

PARAMETRIC VALUES
 ALPHAT .500
 RUDSER .000
 RUDER .000
 OSBINC .000
 ELEVON .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RE-JOB) OPEN ASES 11-707 AS 02A + S3 + T9 UPPER WING
 (RE-JOB) FLAGGED ASES 11-707 AS 02A + S3 + T9 LOWER WING



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES



SYMBOL
O
□
◇
△

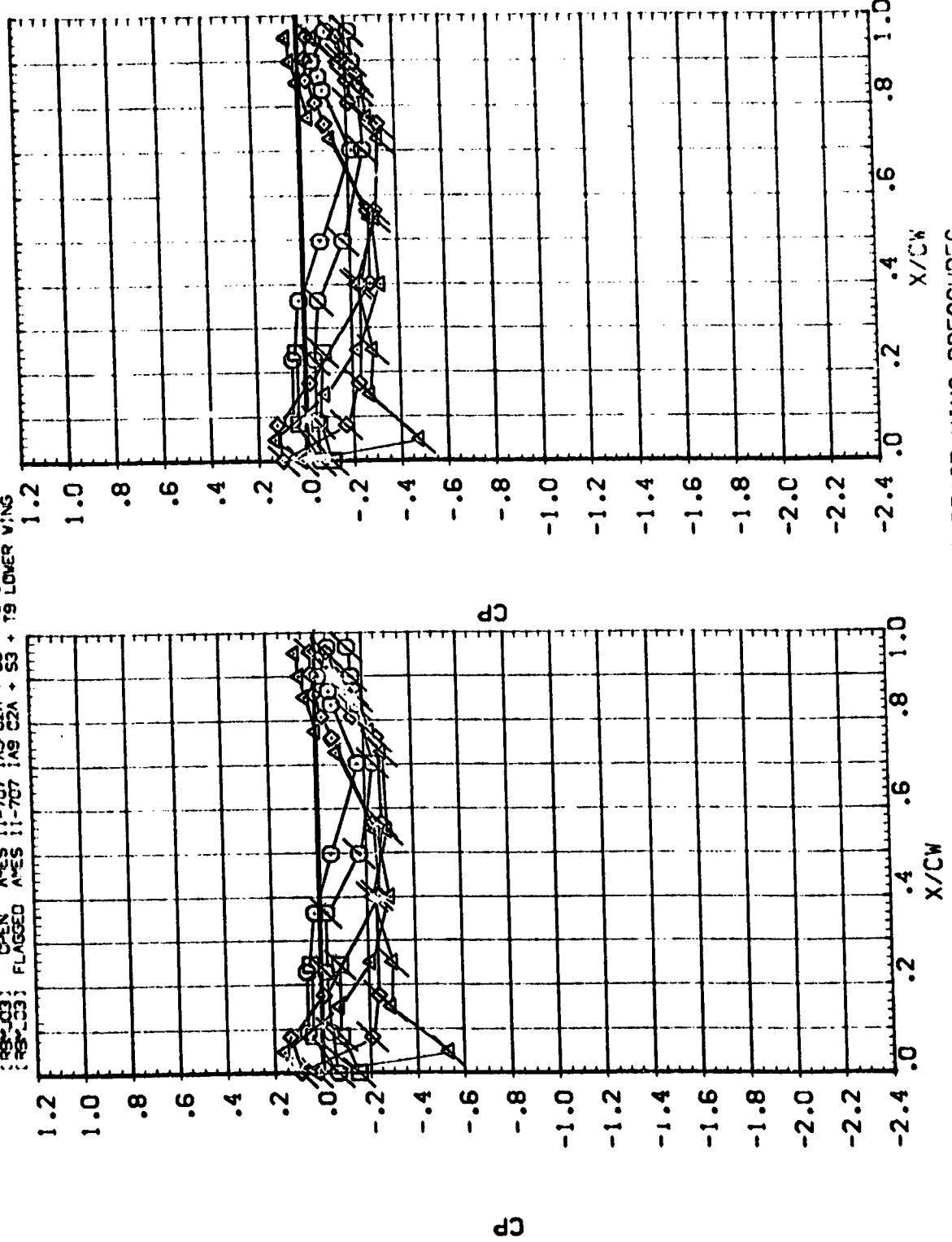
Y/BN
.299
.364
.427
.534

BETA
4.100
8.180

MACH
.599

PARAMETRIC VALUES
ALPHAT
RUDDER
RUDLER
-8.000
.000
.000
.000
-500
.000

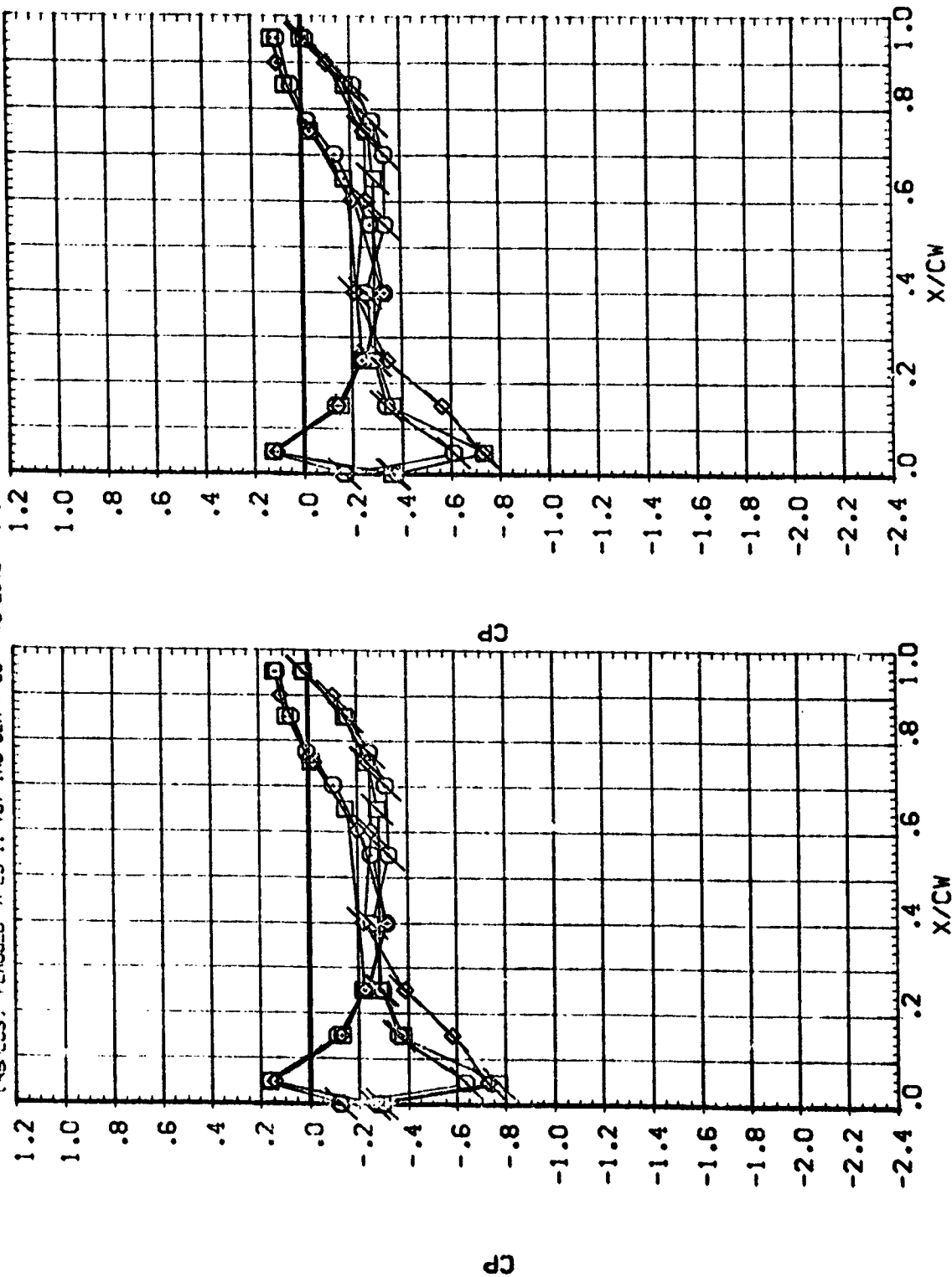
DATA SET SYMBOL CONFIGURATION DESCRIPTION
[RS-03] OPEN ASES 11-707 1A9 D2A + S3 + T9 UPPER WING
[RS-03] FLAGGED ASES 11-707 1A9 C2A + S3 + T9 LOWER WING



III

SYMBOL	V/BV	BETA	MACH	PARAMETRIC VALUES
□	.573	4.100	.599	-8.000
○	.780	8.100		ORBITAL
◇	.887			ELEVON
				RUCFLR

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RUCFLR) OPEN ASES 11-707 1A9 C2A + S3 + 19 UPPER VING
 (RUCFLR) FLANGED ASES 11-707 1A9 C2A + S3 + 19 LOWER VING



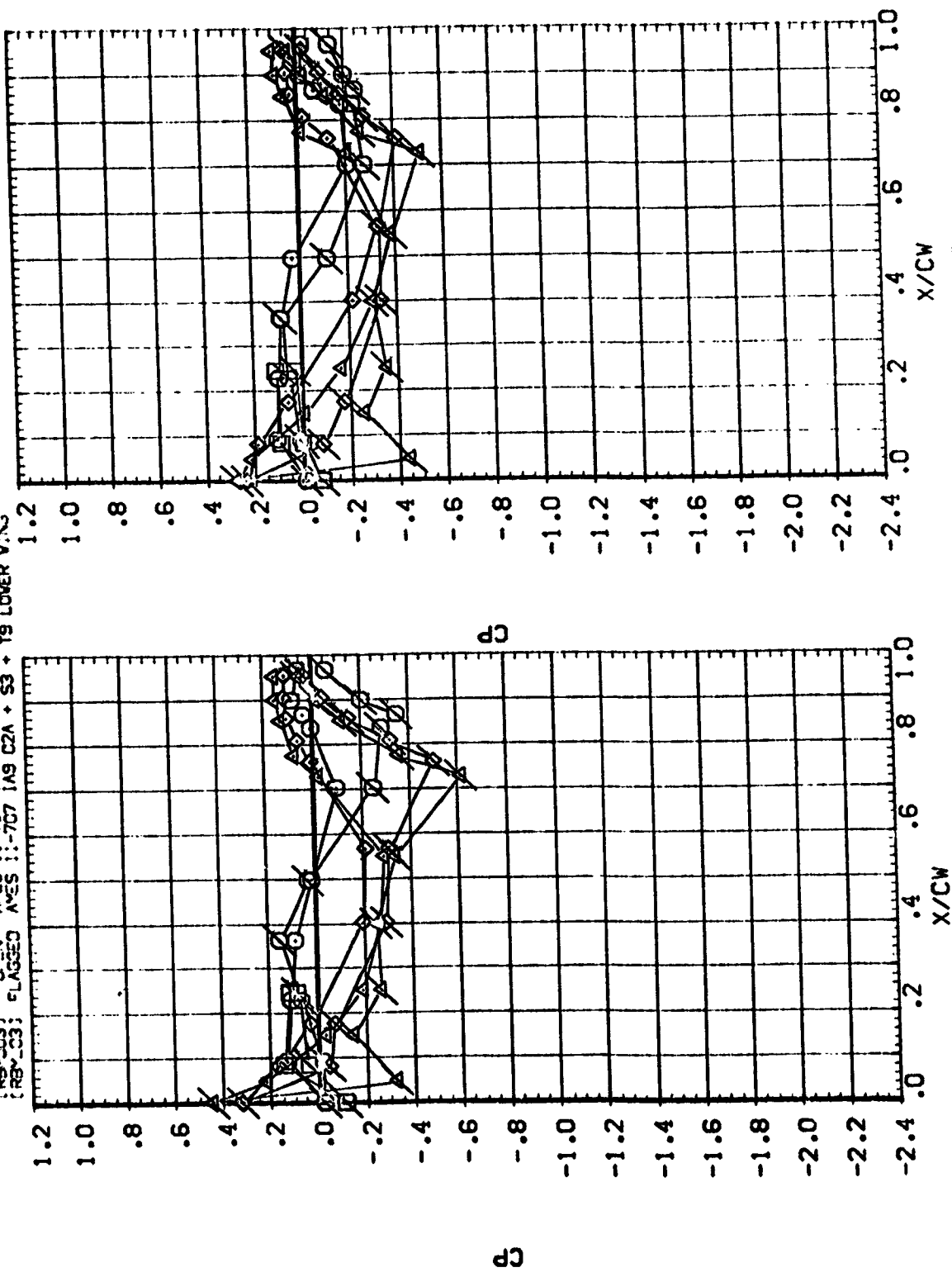
CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

SYMBOL
 ▽
 □
 ○
 △

Y/BV BETA* MACH
 .299 -4.050 .901
 .364 2.08C
 .427
 .534

PARAMETRIC VALUES
 ALPHA* -8.000 DRIBINC .50C
 RUDDER .000 ELEVON .000
 RUDDLR .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 [REP_03] OPEN AMES 11-707 [A9 02A + S3 + T9 UPPER VING
 [REP_03] FLANGED AMES 11-707 [A9 02A + S3 + T9 LOWER VING



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES



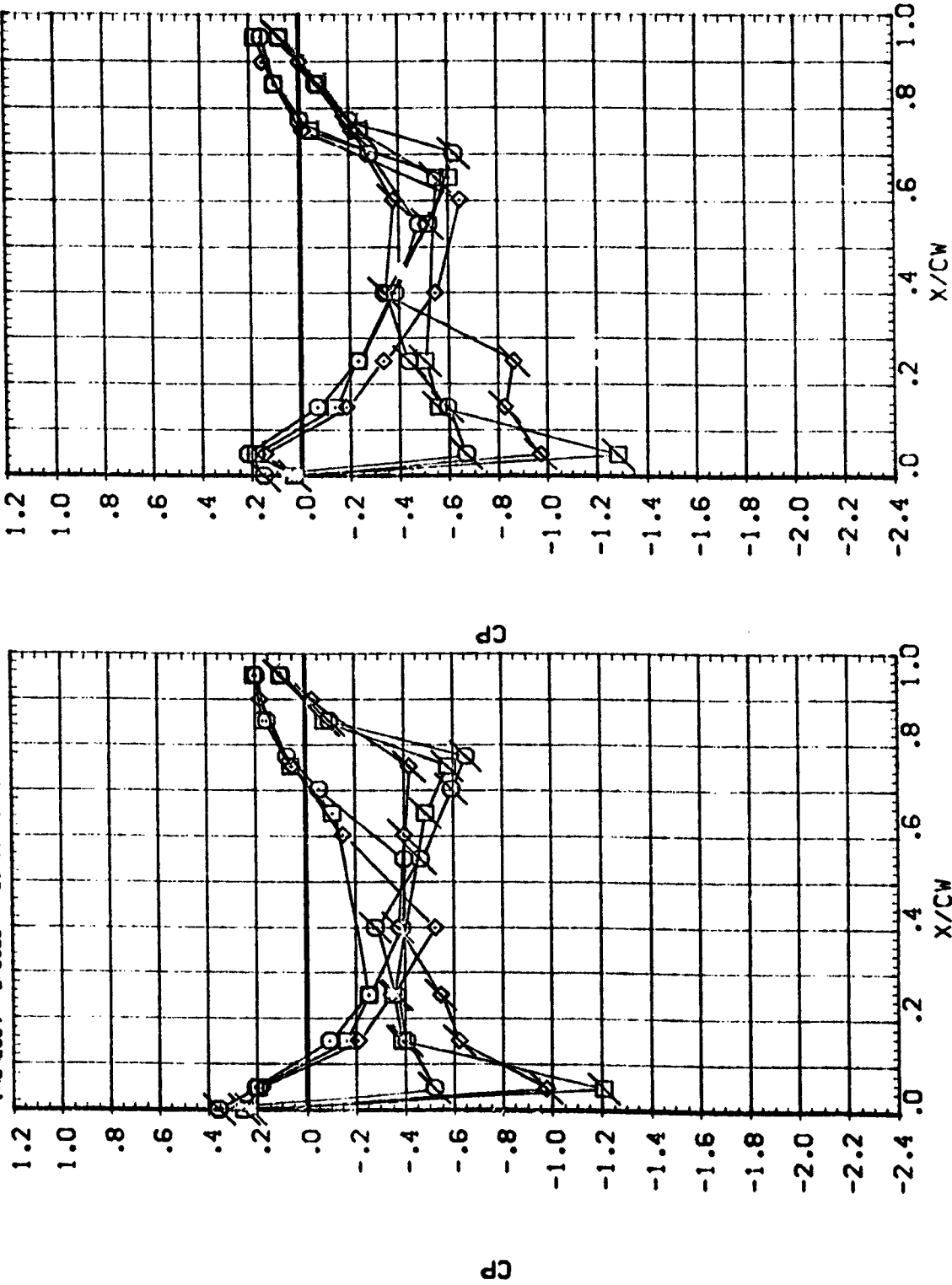
SYNDC- V/BV .573
 .78C
 .887

BETA* -4.05C
 2.08C

MAC- .9C

PARAMETRIC VALUES
ALPHA: -8.00C
RUDDER .00C
RUELR .00C
 .50C
 .00C

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(R8-03) OPEN ASES 11-707 1A9 02A + S3 + T9 UPPER WING
(R8-03) FLAGGED ASES 11-707 1A9 02A + S3 + T9 LOWER WING



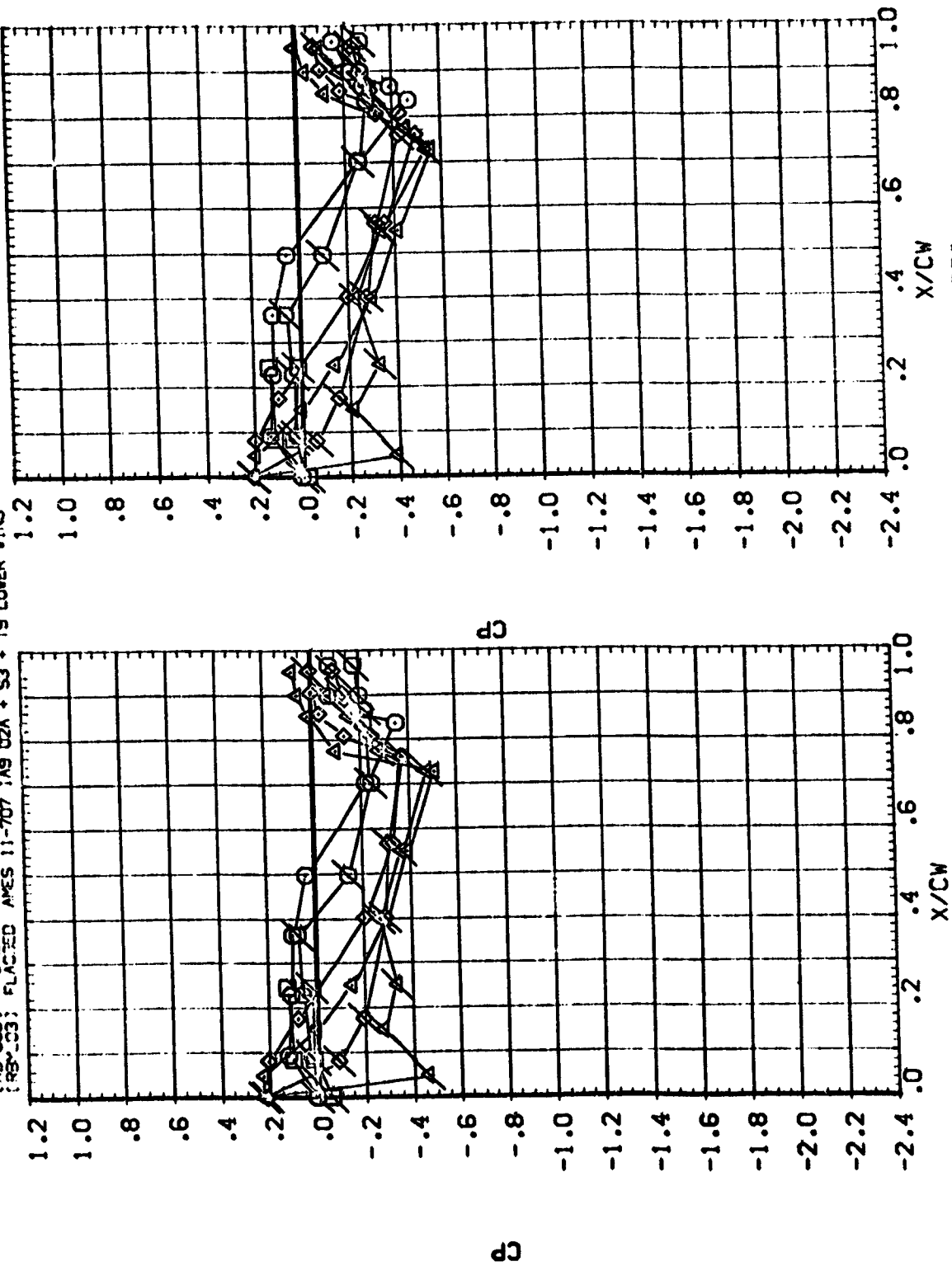
CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

SYMBOL
 □
 ◇
 △

V/SV BETA* MACH
 .299 4.140 .90;
 .364 8.272
 .427
 .534

PARAMETRIC VALUES
 -8.000 ORBINC .500
 .000 ELEVON .000
 RLOSLR

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 RB-03 OPEN ANES 11-707 1A9 02A + S3 + TS UPPER WING
 RB-03 PLACED ANES 11-707 1A9 02A + S3 + TS LOWER WING



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

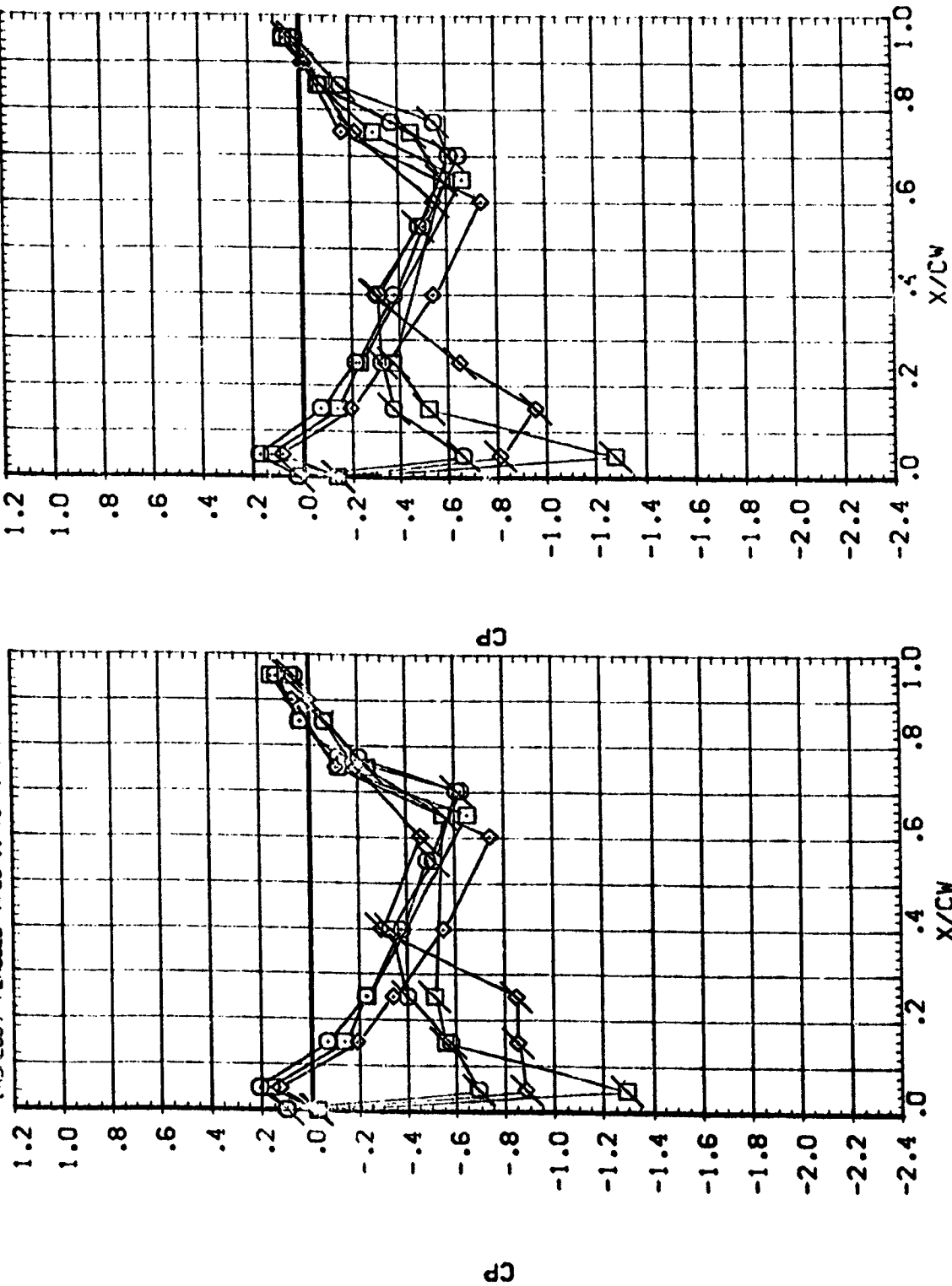


SYMBOL Y/BV
 ○ .673
 □ .78C
 ◇ .887

BETAT MACH
 4.140 .501
 8.27C

PARAMETRIC VALUES
 ALPHAT -8.000 C9BINC .500
 RUDDER .000 ELEVAT .000
 RUDFLR .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RM-03) OPEN ASES 11-707 IAS C2A + S3 + T9 UPPER WING
 (RM-03) FLAGGED ASES 11-707 IAS C2A + S3 + T9 LOWER WING



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

PARAMETRIC VALUES

ALPHAT	-8.000	ORBIN	.500
RUDDER	.000	ELEVON	.000
RJFLR	.000		

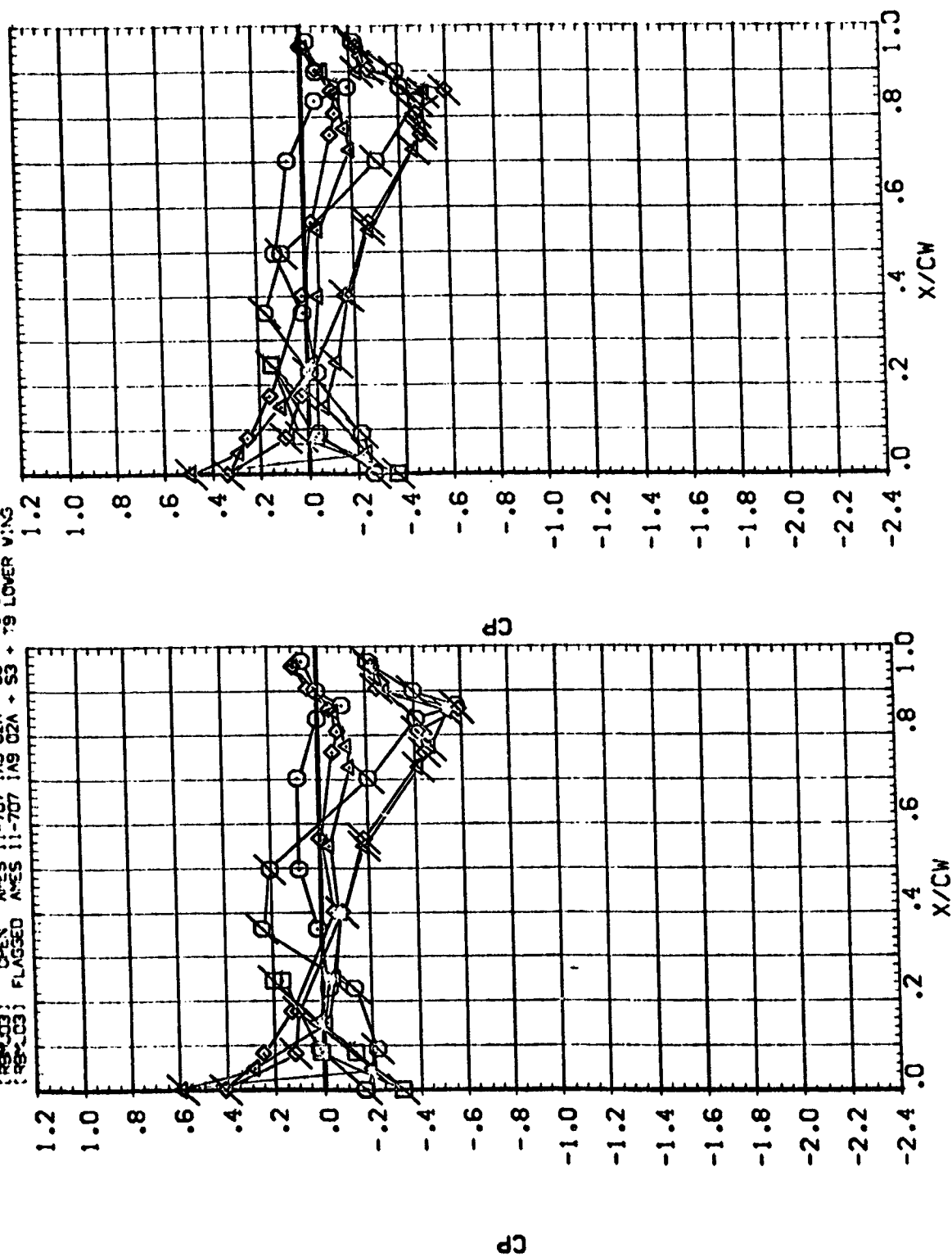
ALPHAT
RUDDER
RJFLR

BETA
-4.000
.020

MACH
1.101

SYMBOL
O
I
D
A

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 18% O3 OPEN AXES 11-707 1A9 02A + S3 + T9 UPPER WING
 18% O3 FLAGGED AXES 11-707 1A9 02A + S3 + T9 LOWER WING



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

III

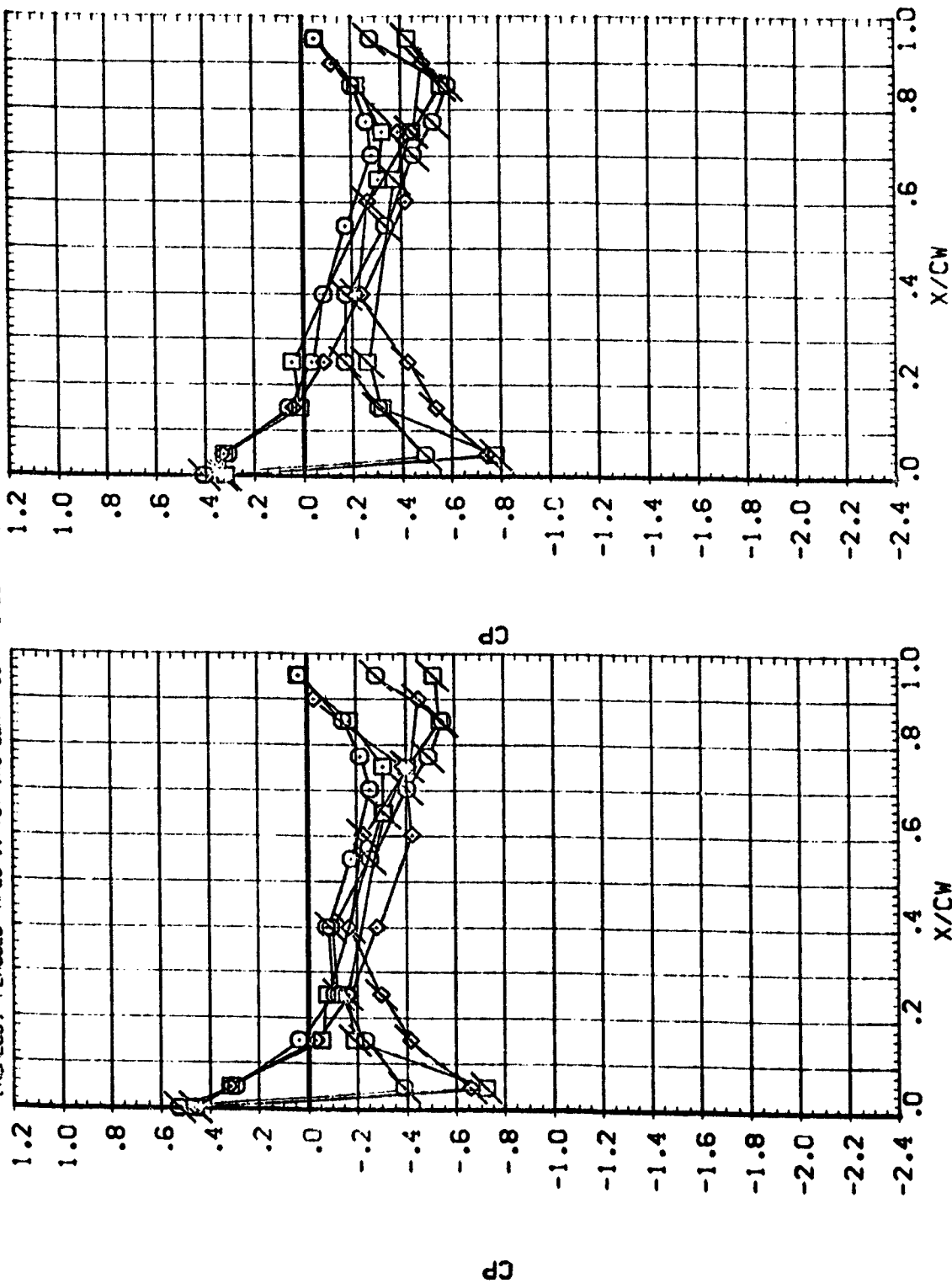
SYMBOL Y/BN .673
 .780
 .887

BETA* MACH
 -4.080 1.10
 .020

PARAMETRIC VALUES
 -8.000 ORBINC .500
 .000 ELEVON .000
 RUDER .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(R81C3) OPEN ASES 11-707 :A9 C2A + S3 + T9 UPPER VING
 (R81C3) FLAGGED ASES 11-707 :A9 C2A + S3 + T9 LOWER VING



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

PARAMETRIC VALUES

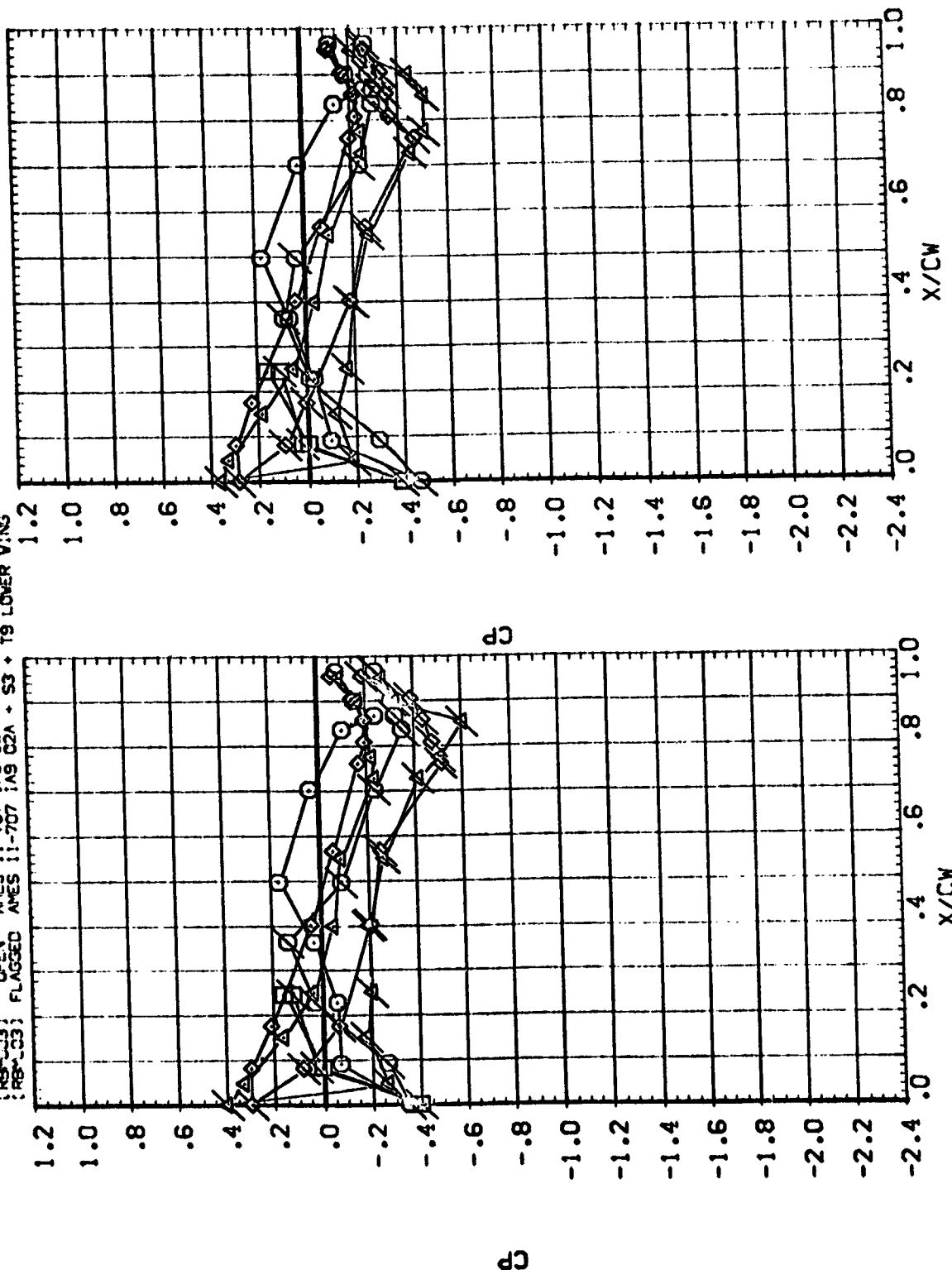
ALPHAT	BETA	MAC	ORBITC	ELEVON
-8.000	4.160	1.101	.500	.000
.000	7.800		.000	.000
.000				

SYMBOL Y/B₁ BETA⁺ MAC⁻

○	.299	4.160	1.101
◇	.364	7.800	
△	.427		
▽	.534		

DATA SET SYMBOL CONFIGURATION DESCRIPTION

RB-03	OPEN	AMES 11-707 1A9 02A + S3 + T9 UPPER WING
RB-03	FLAGGED	AMES 11-707 1A9 02A + S3 + T9 LOWER WING



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES



SYMBOL
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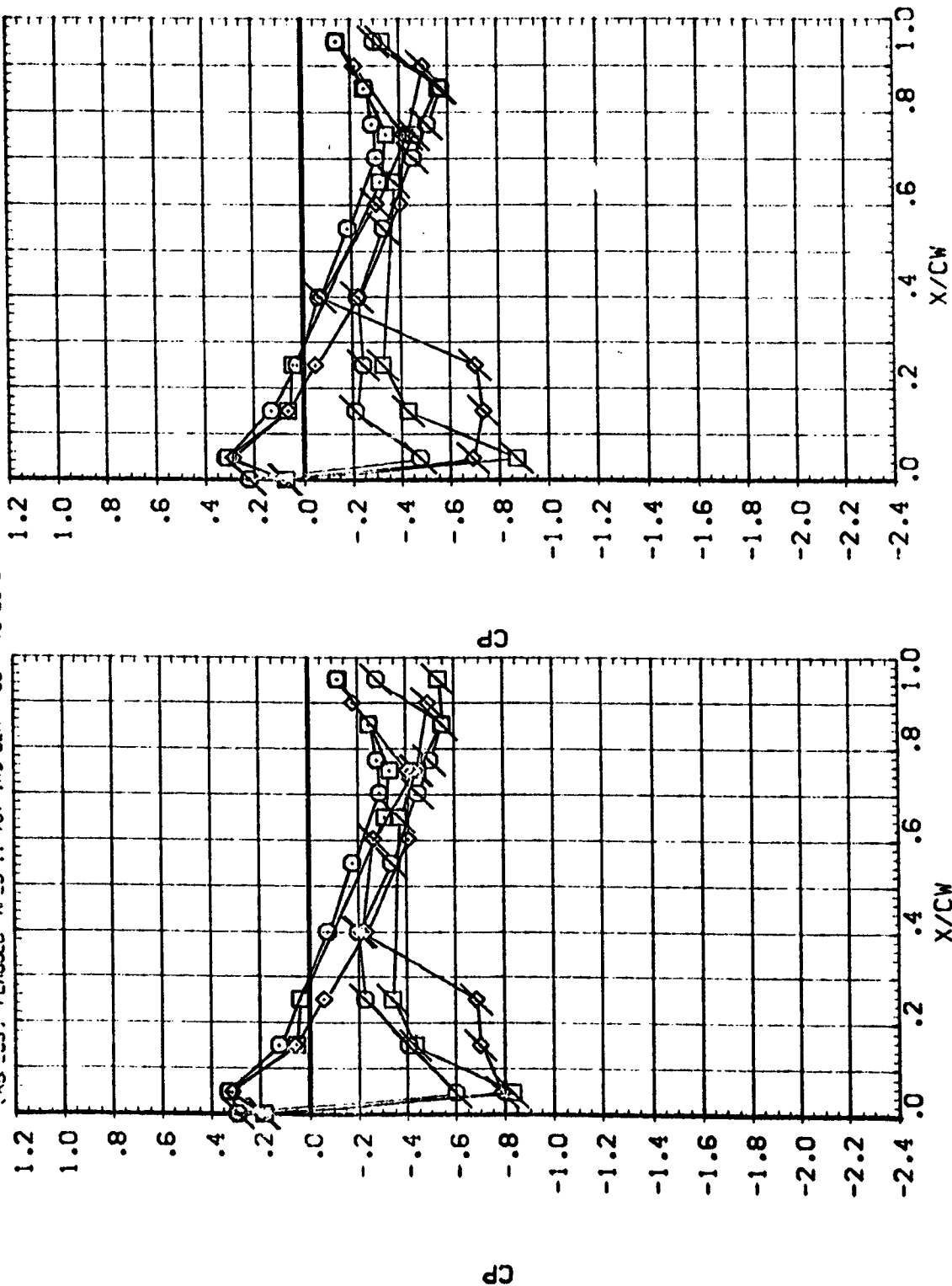
Y/BN
.673
.780
.887

BETAT
4.160
7.800

MACH
1.10

PARAMETRIC VALUES
ALPHAT
RUDER
RUDFLR
-8.000
.000
.000
ORBINC
ELEVON
.500
.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(884-03) OPEN AVES 11-707 : A9 C2A + S3 + T9 UPPER WING
(884-03) FLAGGED AVES 11-707 : A9 C2A + S3 + T9 LOWER WING



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

PARAMETRIC VALUES

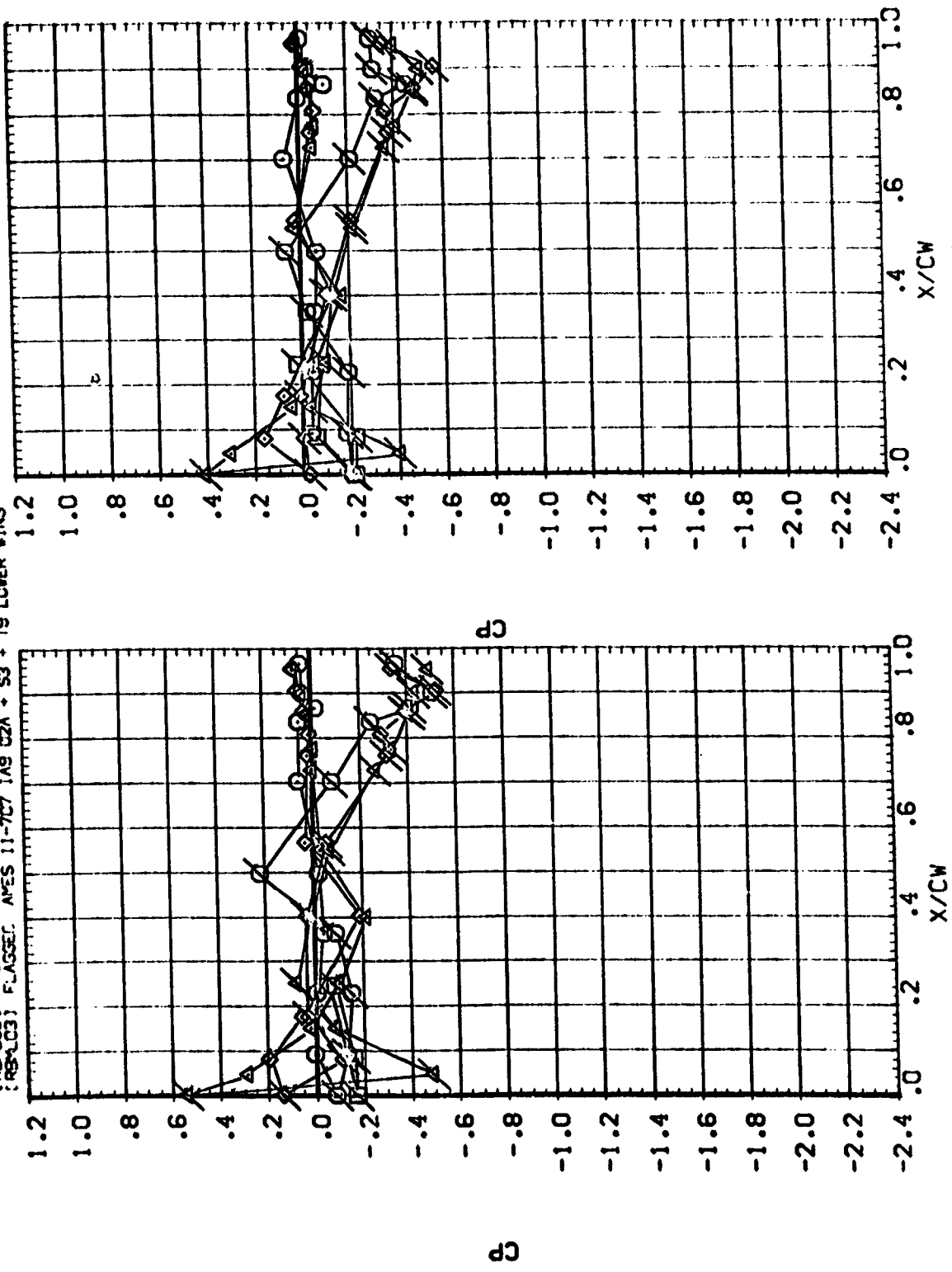
ALPHAT	-8.000	ORBINC	.500
RUDGER	.000	ELEVON	.000
RUDFLR	.000		

SYMB: Y/BV BETAT MACH

.289	-4.050	1.248
.361	2.080	
.427		
.534		

DATA SET SYMB: CONFIGURATION DESCRIPTION

(RBM-03)	COEN	AMES 11-707 1A9 02A + S3 + T9 UPPER WING
(RBM-03)	FLAGEC	AMES 11-707 1A9 02A + S3 + T9 LOWER WING

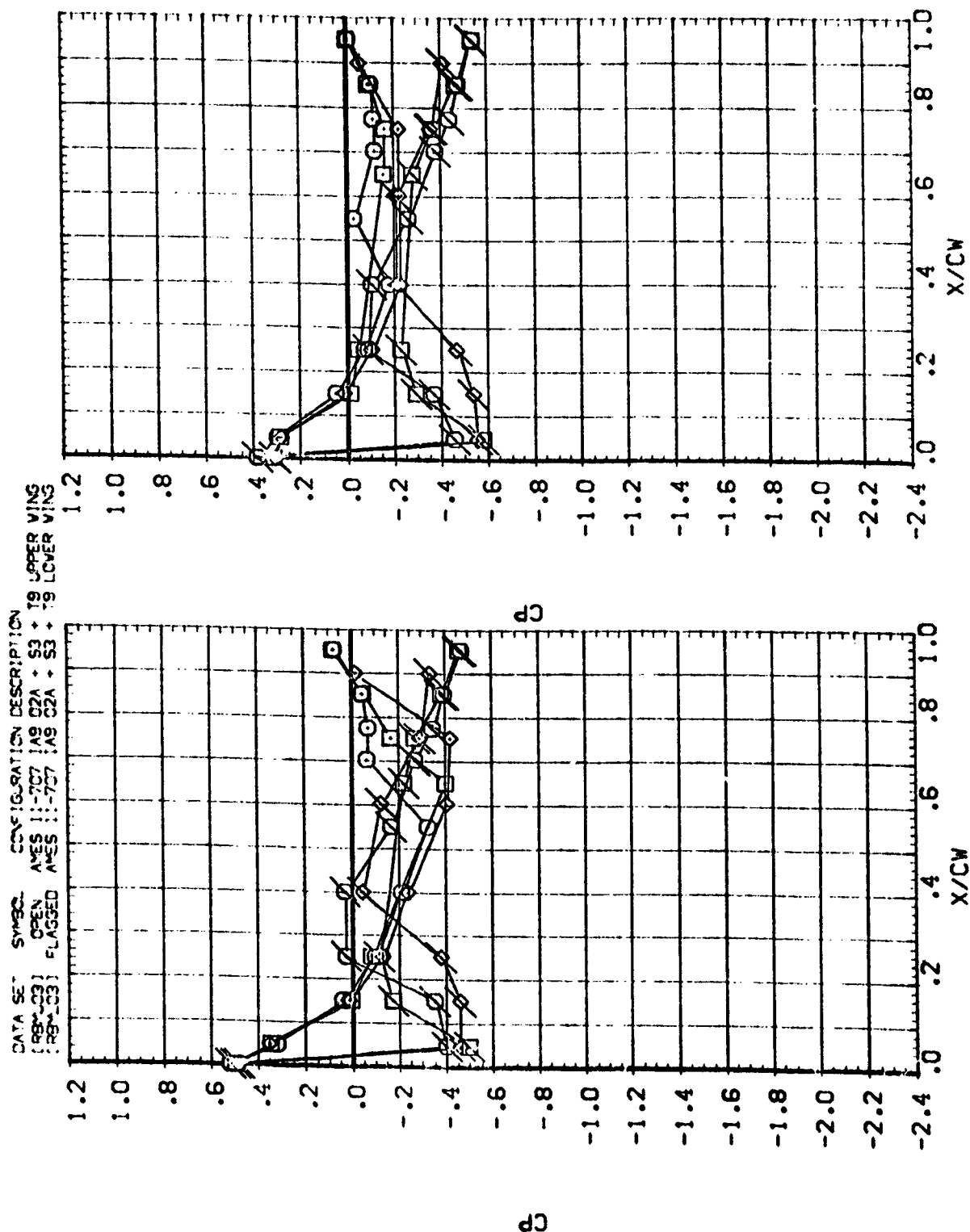


CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

WAC-
: 248

PARAMETRIC VALUES	
-8.000	CRBINC
.000	ELEVON
.000	
.500	
.000	

ALPHAT	-8.000	ORBITAL
RODER	.000	ELEVON
RODER	.000	



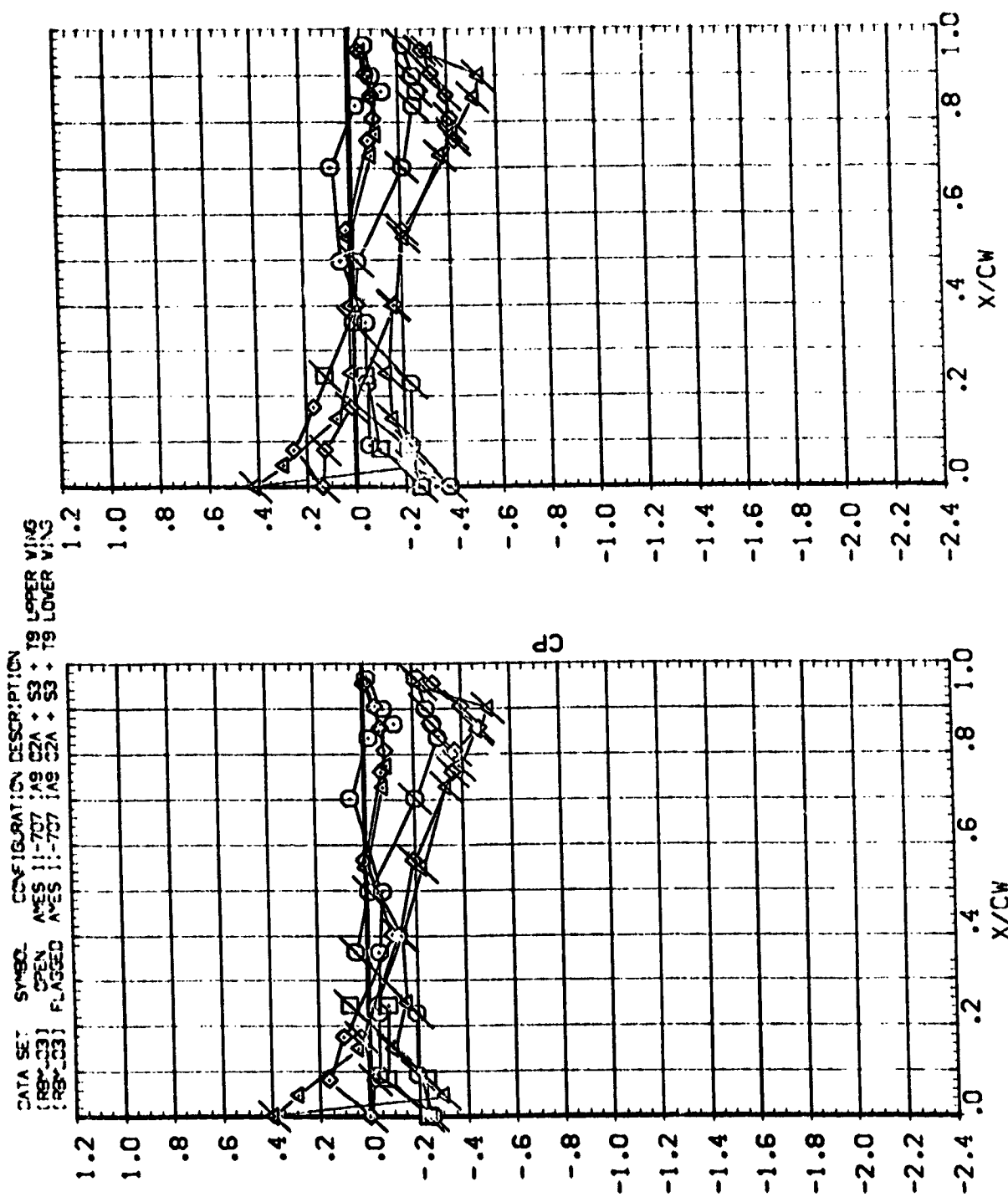
CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

PARAMETRIC VALUES

ALPHA	-8.000	OSBINC	.500
ROTOR	.000	ELEVON	.000
RUFLR	.000		

SYNCH. Y/BV BETA MACH

.288	4.140	1.248
.364	8.250	
.427		
.534		

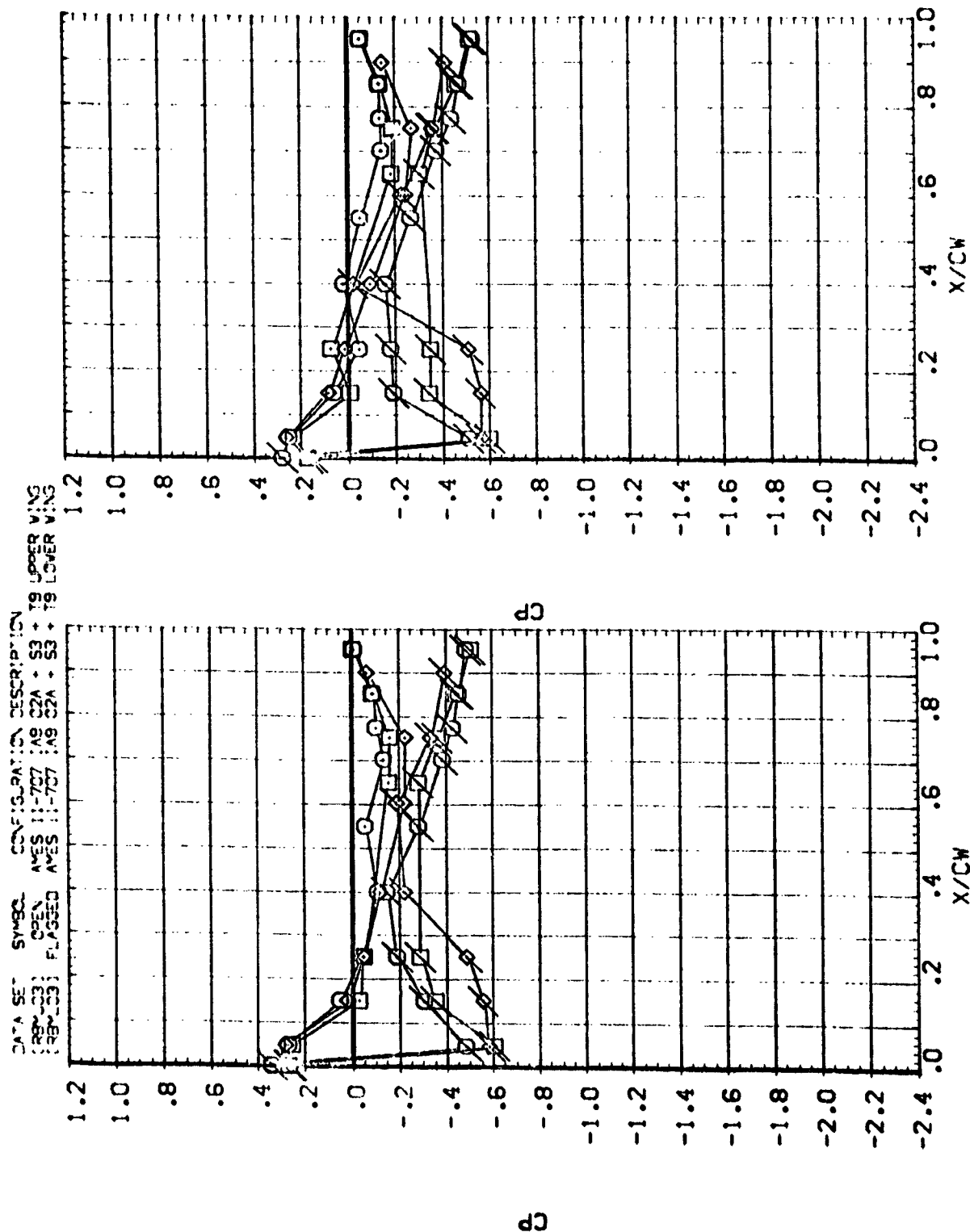


CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

SYMBOL: α β γ δ ϵ ζ η θ ι κ λ μ ν ξ \omicron π ρ σ τ υ ϕ χ ψ ω

PARAMETRIC VALUES

ALPHA: 8.000 999.110
 RUDDER: 1.000
 RUDDER: 1.000



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

PARAMETRIC VALUES

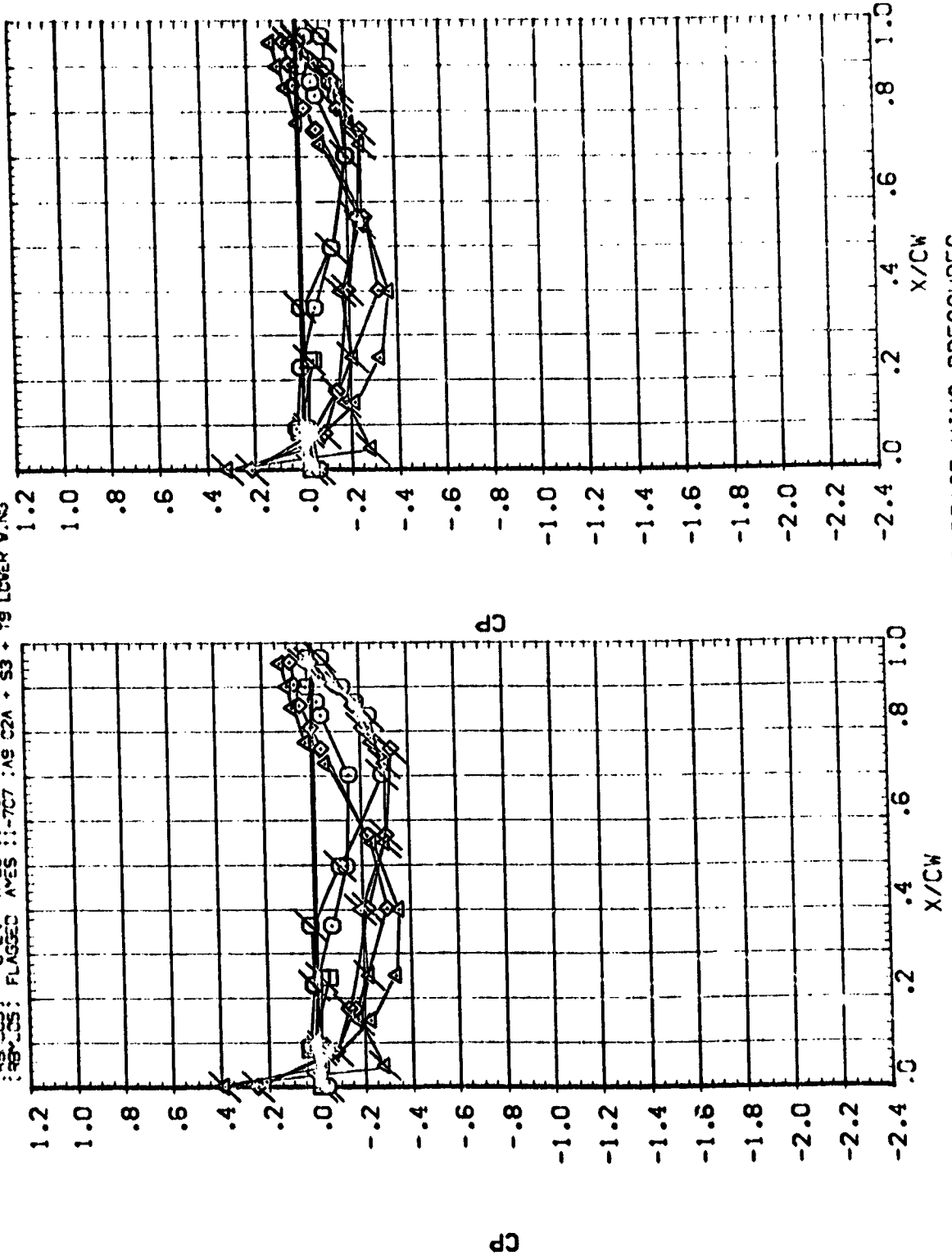
ALPHA	5.000
ROD	5.000
ROD	5.000
ROD	5.000

SYMBOL Y/BN BETAT MAC

()	.299	.020	.600
()	.364	4.080	
()	.427		
()	.534		

DATA SET SYMBOL CONFIGURATION DESCRIPTION

REPOS	OPEN	ANES 11-707	AS 22A + S3 + T9 UPPER WING
REPOS	FLAGGED	ANES 11-707	AS 22A + S3 + T9 LOWER WING



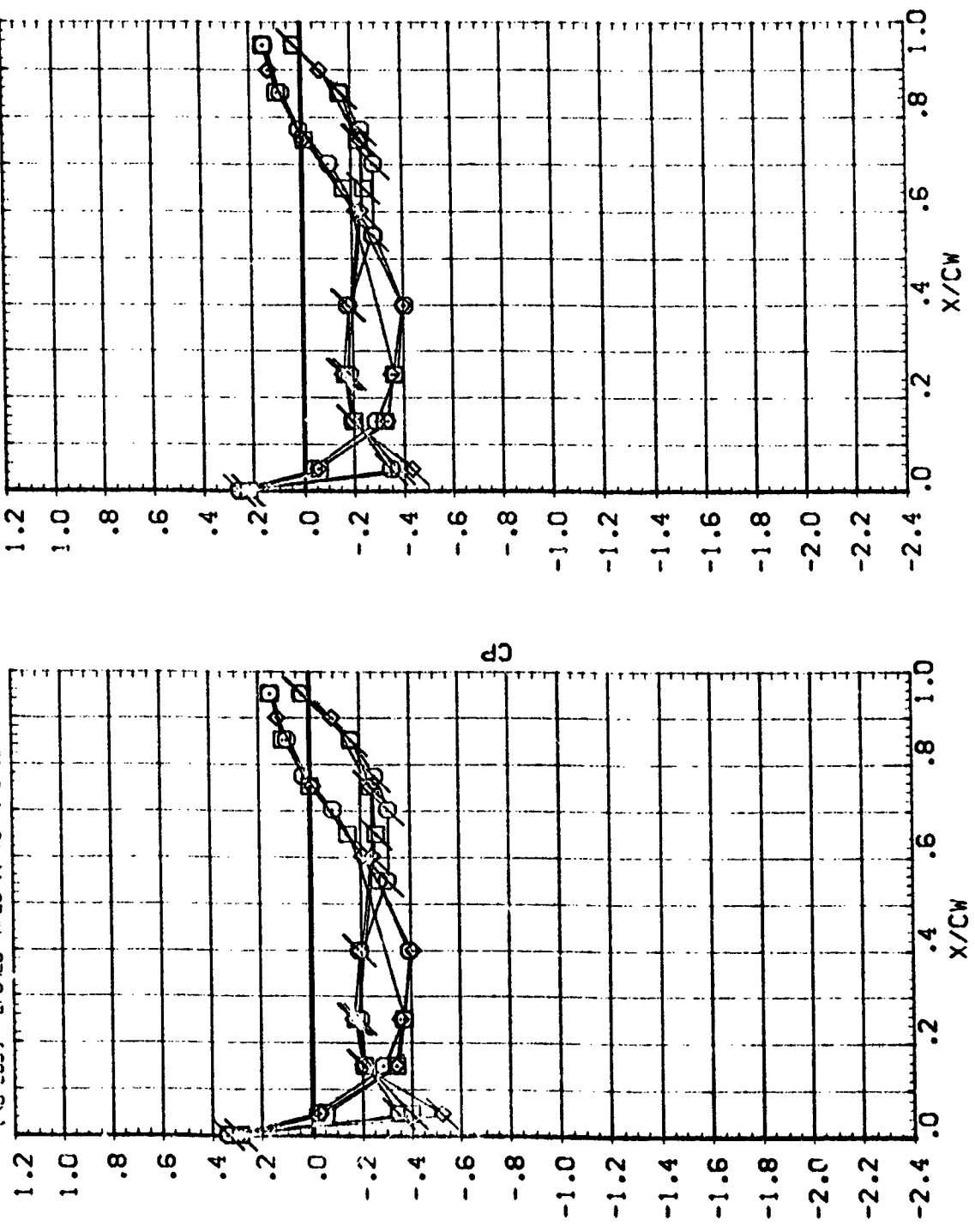
CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

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SYMBOL V/BW BETA² MAC²
 .673 .220 .600
 .780 4.280
 .897

PARAMETRIC VALUES
 ALPHAT -4.000 0.981 NC .500
 RUDDER .000 ELEVON .000
 RUDDER .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RBL-OS) OPEN AMES 11-707 : A9 C2A - S3 + T9 UPPER WING
 (RBL-OS) FLAGGED AMES 11-707 : A9 C2A - S3 + T9 LOWER WING



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

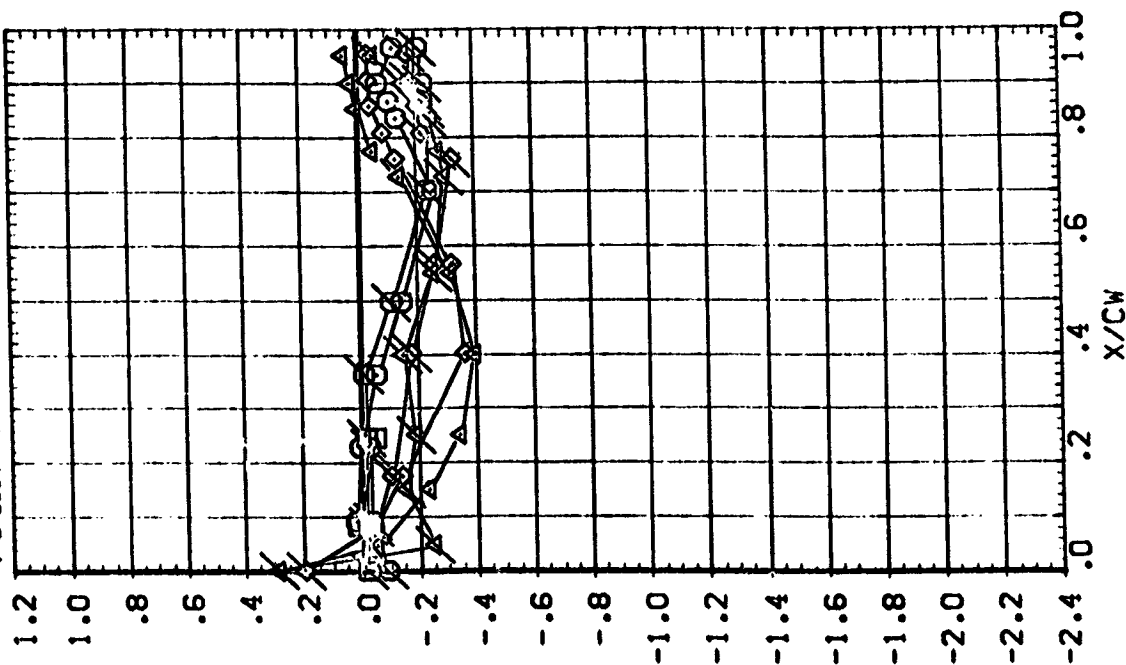


SYMBOL
△ ○ □

Y/BN .289
BETA 8.15C
MACH .600
ALPHA 7
RUDER .000
RUFLR .000

PARAMETRIC VALUES
-4.000 ORBITC
.000 ELEVEN
.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
RUCOS OPEN AXES 11-707 1A9 02A + S3 + T9 UPPER WING
RUCOS FLAGGED AXES 11-707 1A9 02A + S3 + T9 LOWER WING



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES



SYMBOL
○
◇

Y/BN
.673
.78C
.887

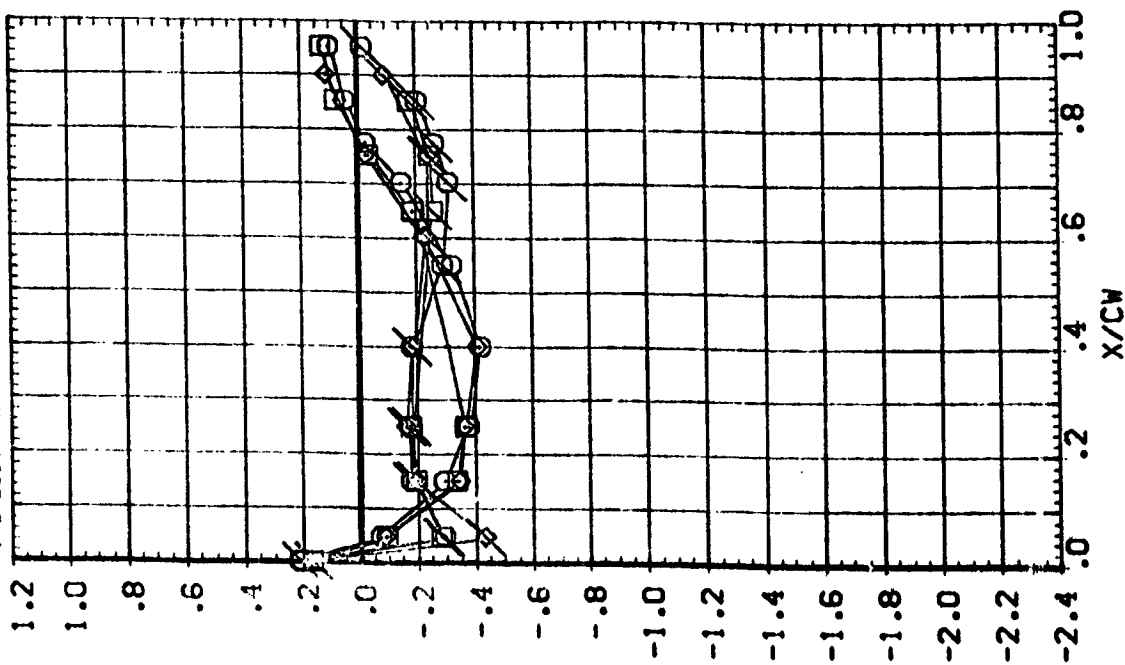
BETA
8.150

MACH
.600

PARAMETRIC VALUES
ALPHAT
-4.000
.000
.000

ORBITC
ELEVON
RUOFLR

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(R8-PL05) OPEN AMES 11-707 (A9 C2A + S3 + T9 UPPER WING
(R8-PL05) FLAGGED AMES 11-707 (A9 C2A + S3 + T9 LOWER WING



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

PARAMETRIC VALUES

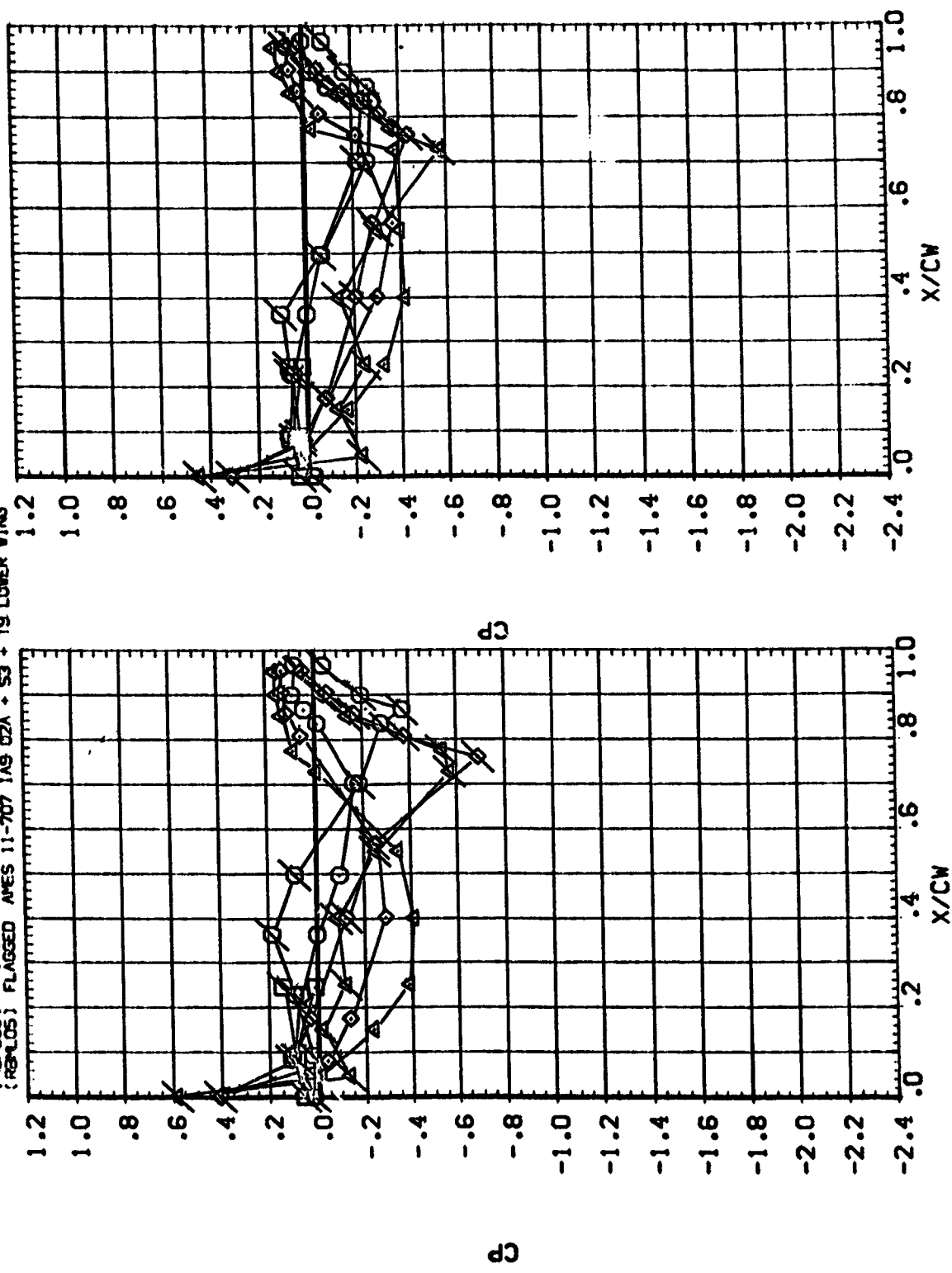
ALPHA	ORBIT	.500
RUDDER	ELEVON	.000
RLOFLR		.000

SYMBOL

V/BN	BETAT	MACH
.299	-4.070	.903
.364	2.070	
.427		
.534		

DATA SET SYMBOL CONFIGURATION DESCRIPTION

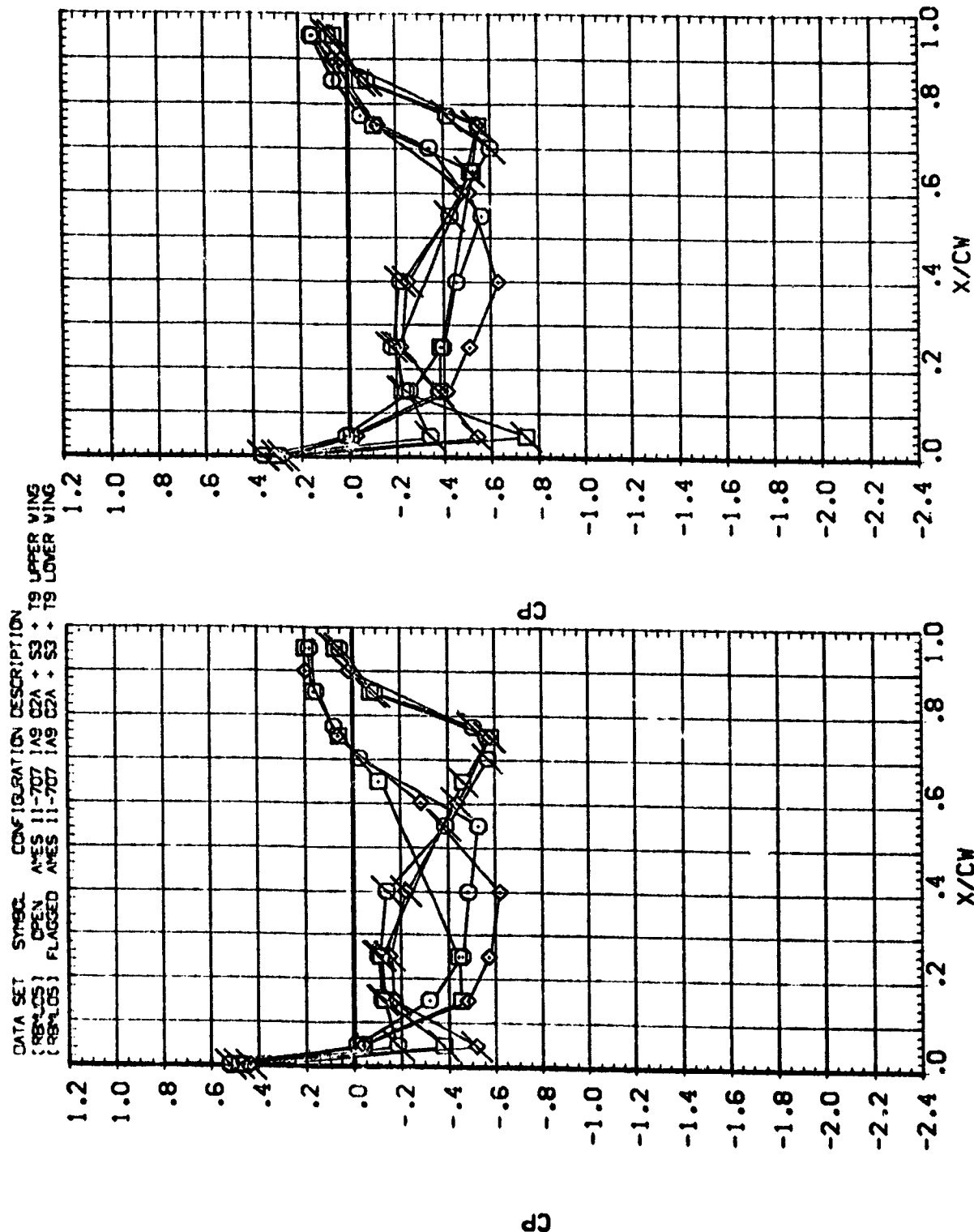
AVES 11-707	IAS 02A + S3 + T9	UPPER WING
AVES 11-707	IAS 02A + S3 + T9	LOWER WING



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

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SYMBOL	V/SN	BETAT	MACH	ALPHAT	PARAMETRIC VALUES
□	.673	-4.070	.903	RUDDER	-4.000 ORBINC .500
◇	.780	2.070		RUDFLR	.000 ELEVON .000
	.987				.000

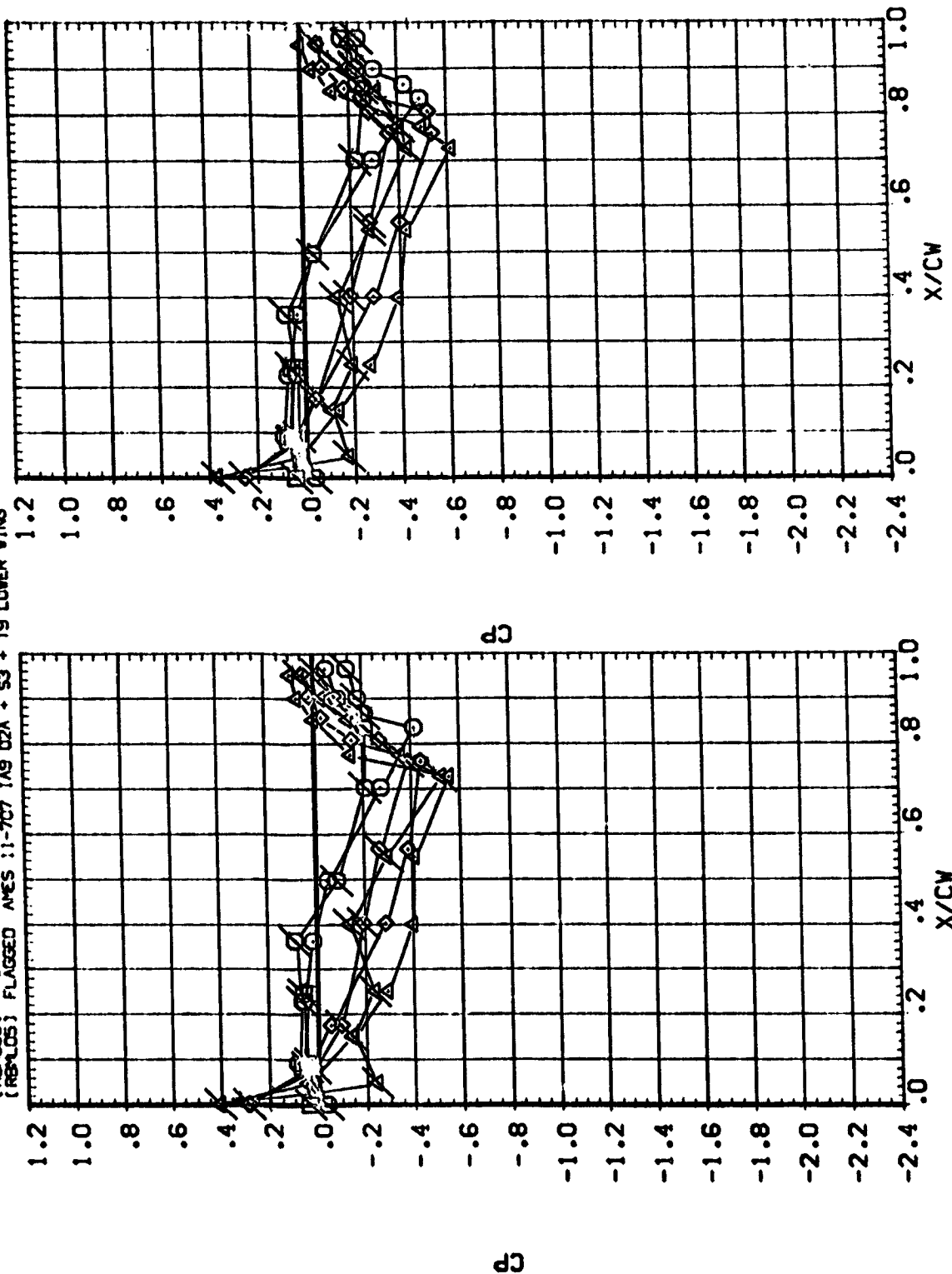


PARAMETRIC VALUES
 ALPHAT -1.000
 RUDDER .000
 RUOFLR .000
 .500
 .000
 .000

BETAT 4.120
 MACH .903
 4.120
 8.230

SYMBOL Y/BN
 .299
 .354
 .427
 .534

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (REPLUS) OPEN AMES 11-707 1A9 02A + S3 + T9 UPPER VING
 (REPLUS) FLAGED AMES 11-707 1A9 02A + S3 + T9 LOWER VING



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES



SYMBOL
 □
 ◇

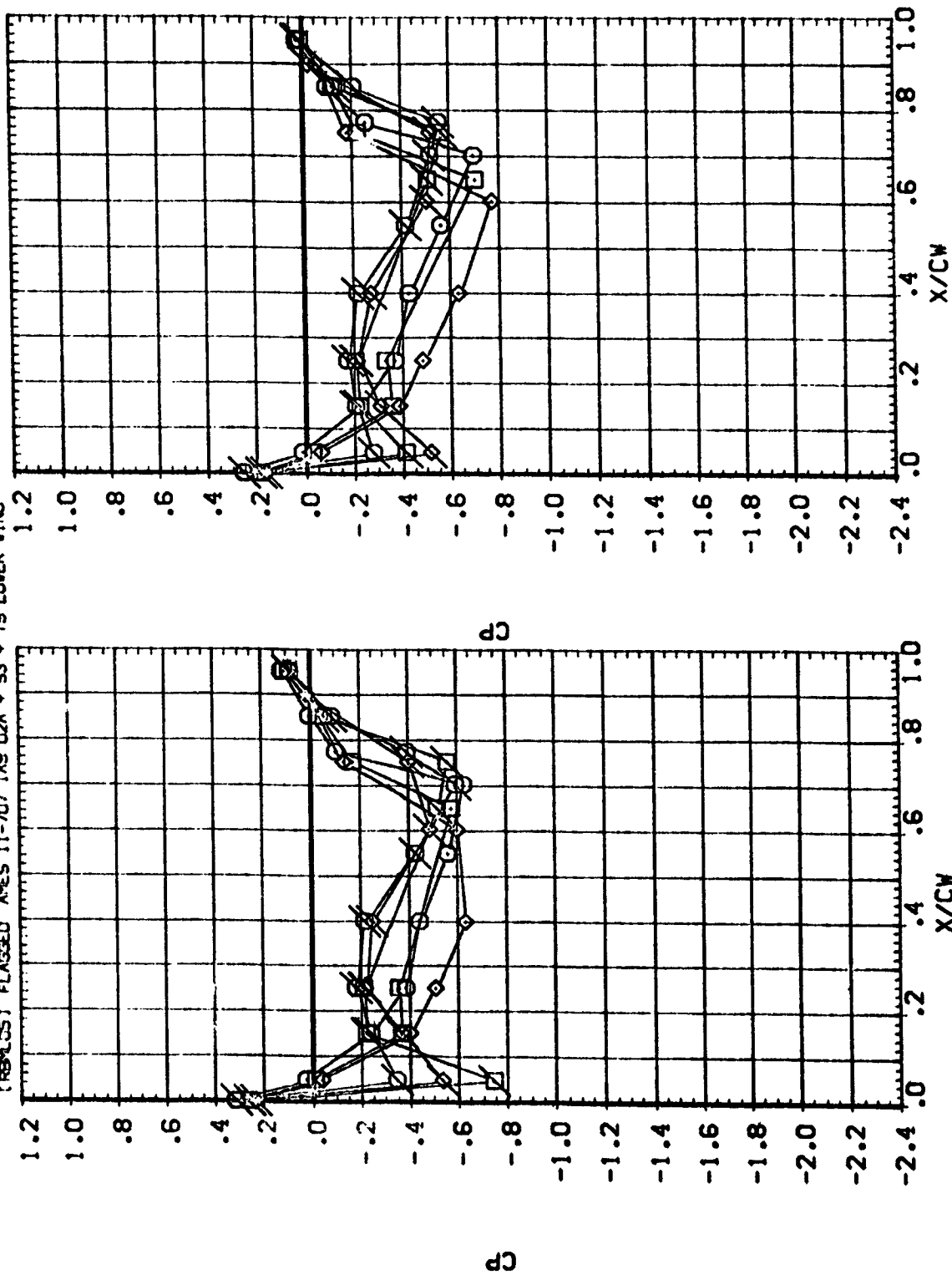
Y/BN
 .673
 .78C
 .887

BETA
 4.120
 8.230

MACH
 .903

PARAMETRIC VALUES
 ALPHA
 RUDDER
 RUOFLR
 .500
 .000
 .000
 .000
 .000
 .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RBMLOS) OPEN AYES 11-707 1A9 02A + S3 + T9 UPPER VING
 (RBMLOS) FLAGGED AYES 11-707 1A9 02A + S3 + T9 LOWER VING



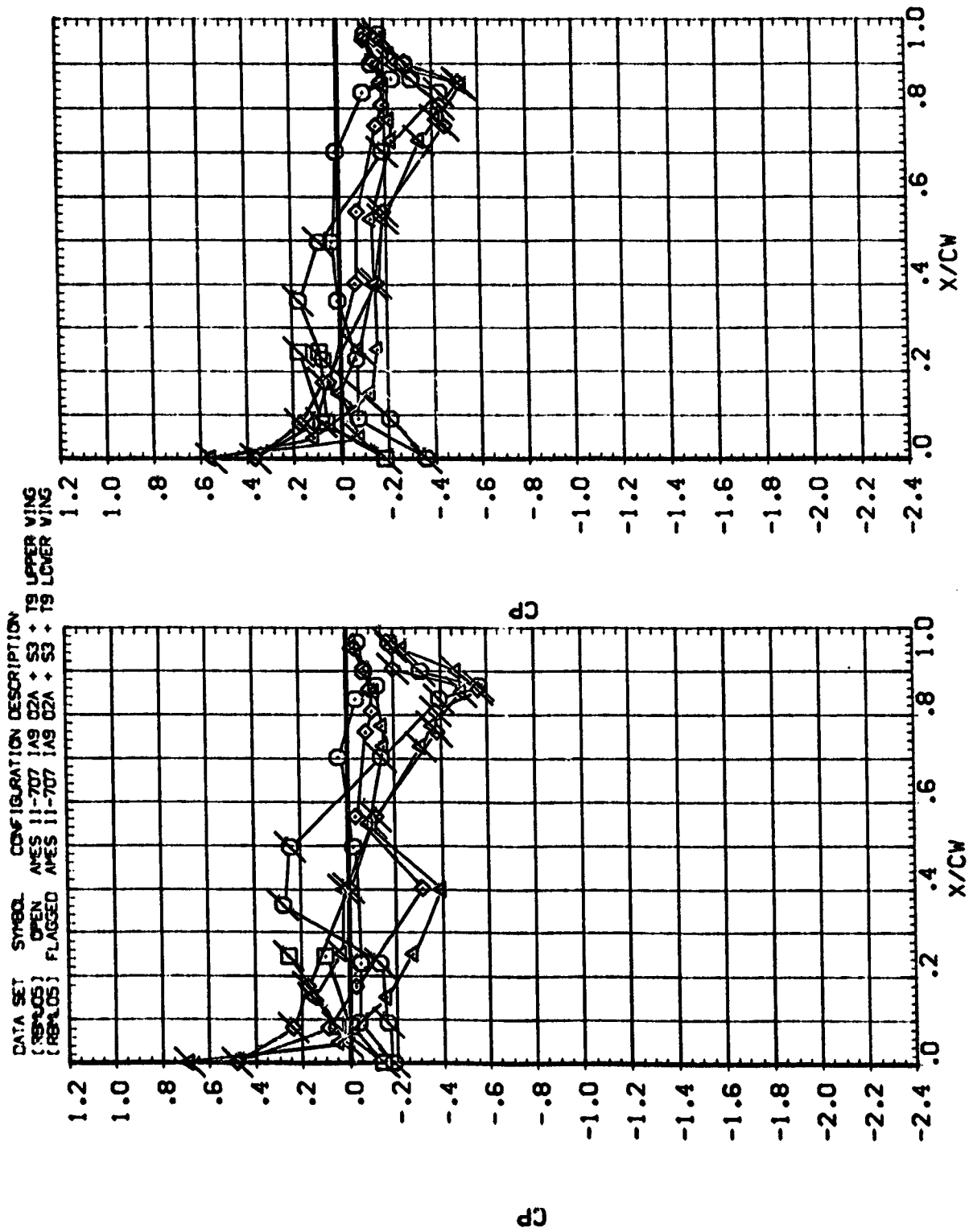
CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

PARAMETRIC VALUES

ALPHAT	-4.000	ORRINC	.500
RUDDER	.000	ELEVON	.000
RUOFLR	.000		

SYMBOL Y/BV BETAT MACH

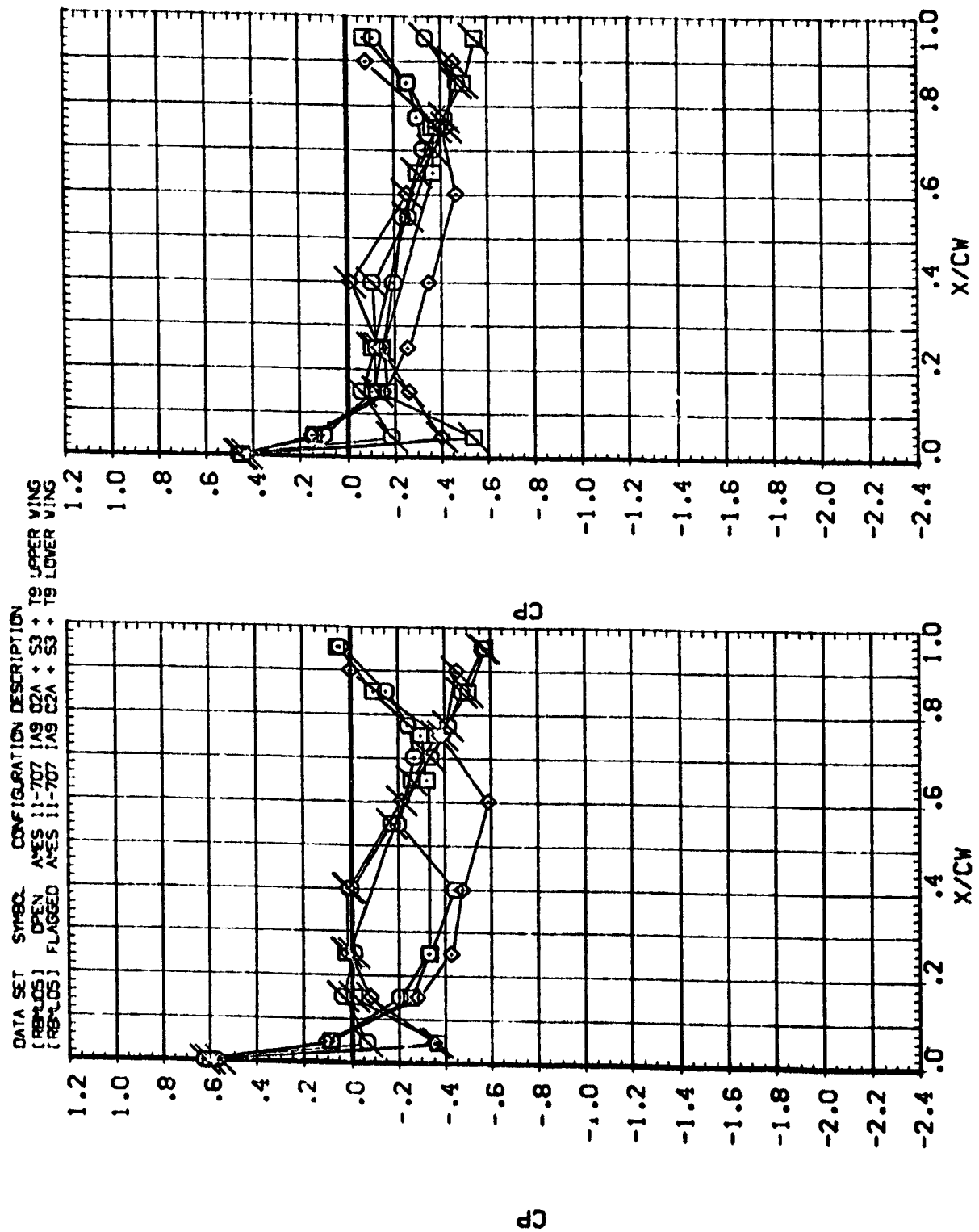
◇	.299	-4.080	1.100
○	.364	2.080	
△	.427		
▽	.534		



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

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SYMBOL	Y/BV	BETA*	MACH	PARAMETRIC VALUES
○	.673	-4.08C	1.10C	ALPHAT -4.00C
□	.78C	2.08C		RUDDER .00C
◇	.887			RJFLR .00C
				ORBITC .50C
				ELEVON .00C



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES



SYMBOL
 ○
 □
 ◇
 △

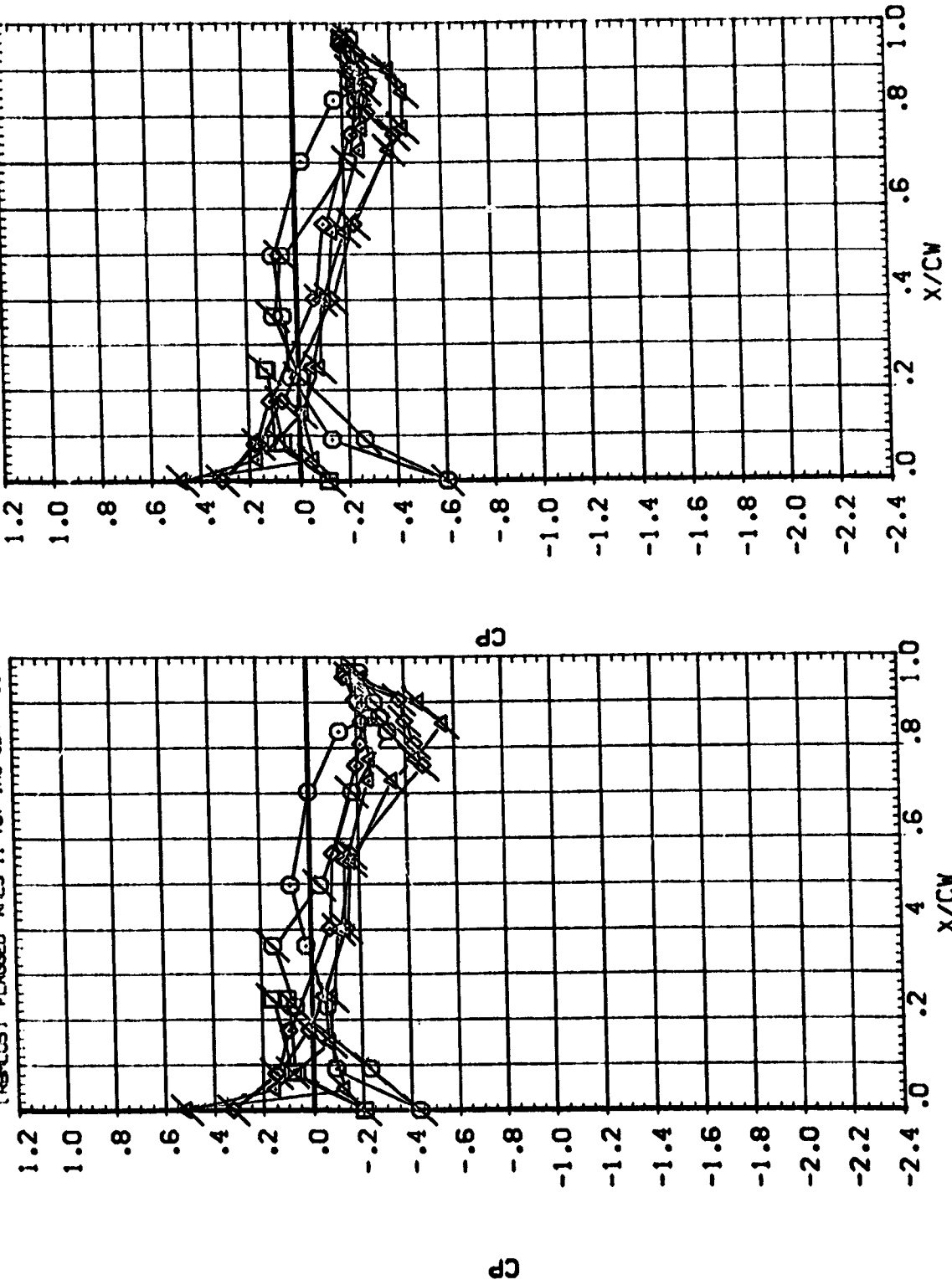
Y/BN
 .299
 .364
 .427
 .534

BETAT
 4.140
 8.270

MACH
 1.100

PARAMETRIC VALUES
 ALPHAT
 RUDER
 RUDLR
 -4.000
 .000
 .000
 ORBINC
 ELEVON
 .500
 .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (REPLACES) OPEN ANES 11-707 1AS 02A + S3 + TS UPPER WING
 (REPLACES) FLAGGED ANES 11-707 1AS 02A + S3 + TS LOWER WING



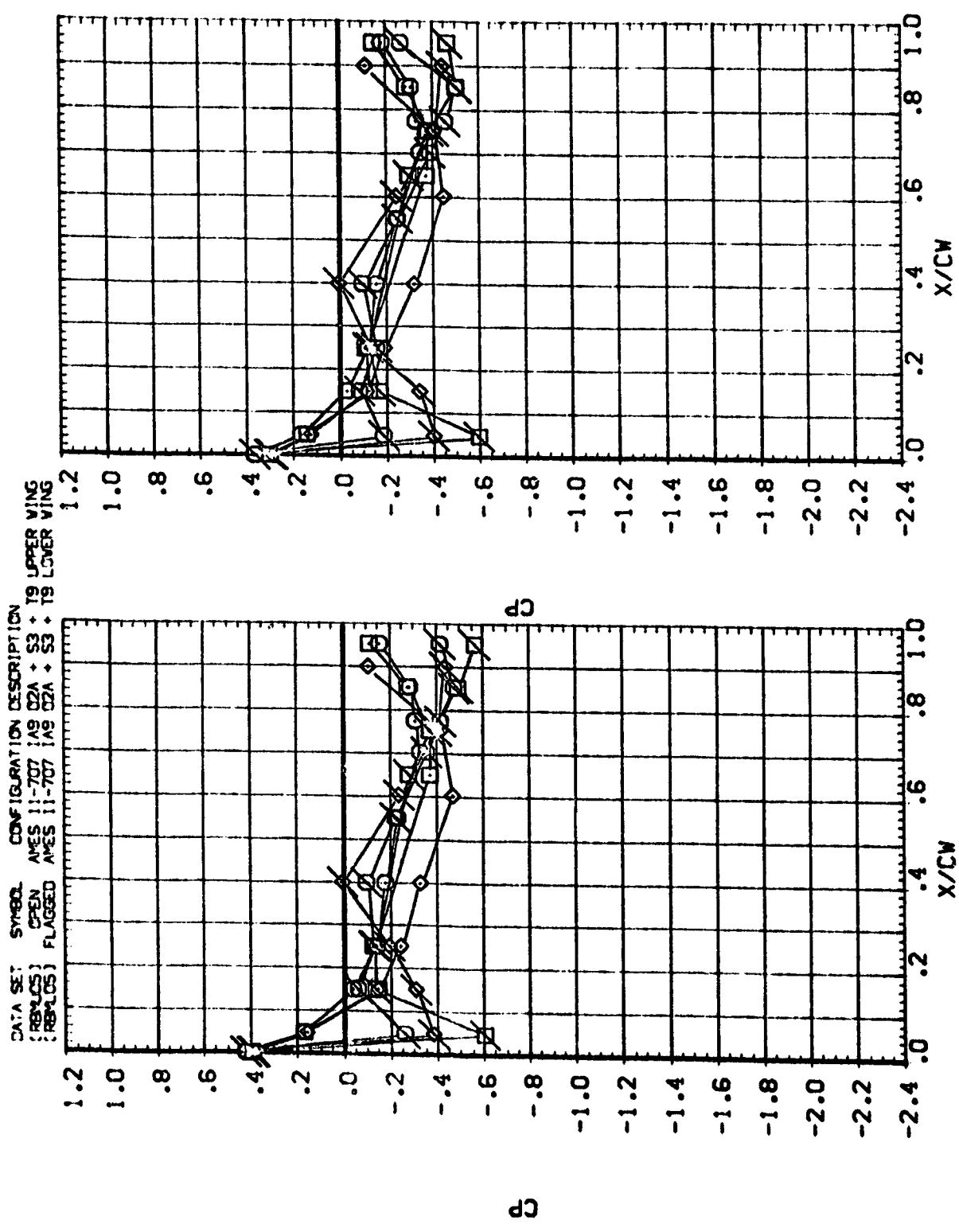
CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

PARAMETRIC VALUES

ALPHAT	-4.000	ORBNIC	.500
RUDDER	.000	ELEVON	.000
RJDFLR	.000		

SYMBOL Y/BN BETAT MACH

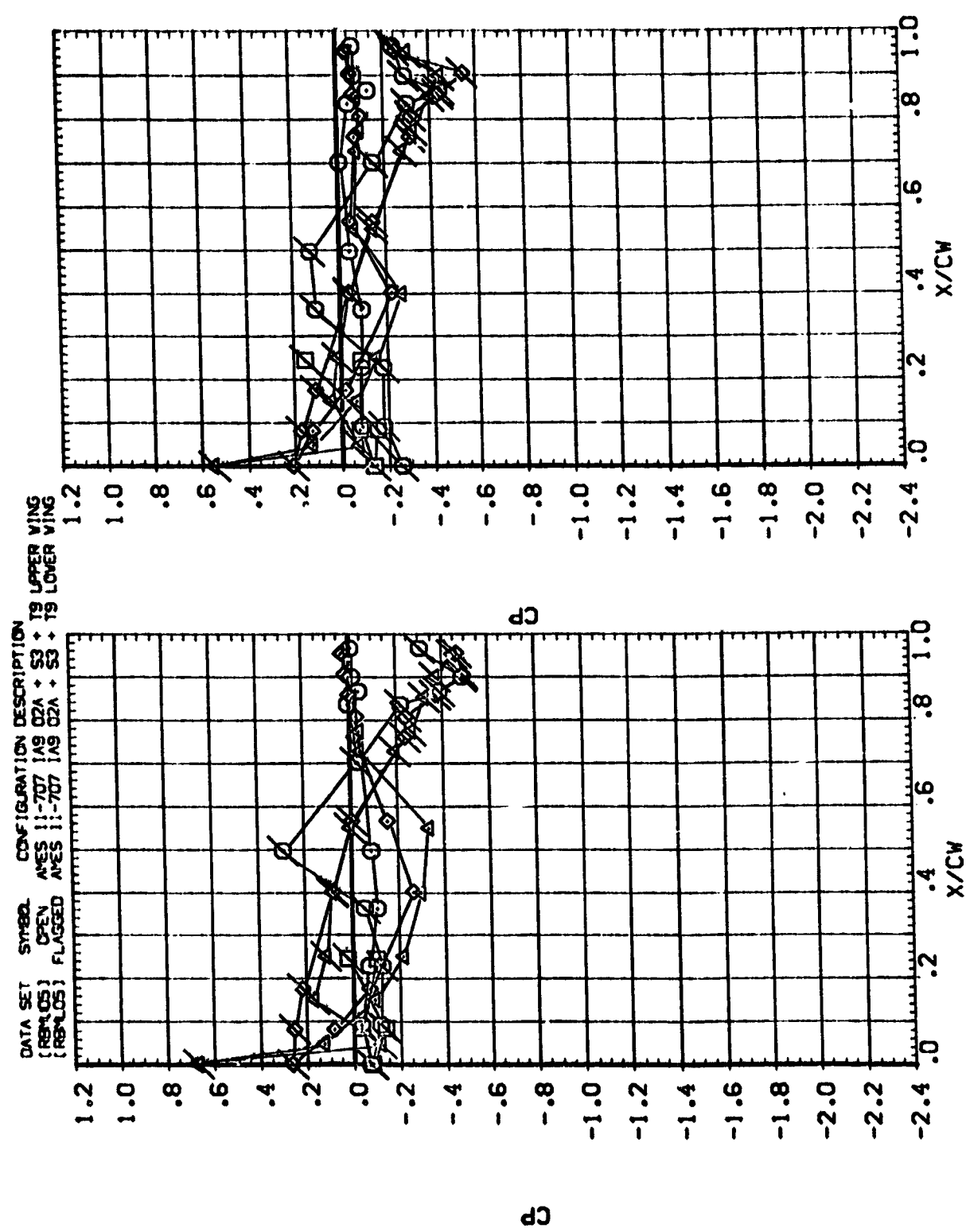
○	.673	4.140	1.100
□	.780	8.270	
◇	.887		



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES



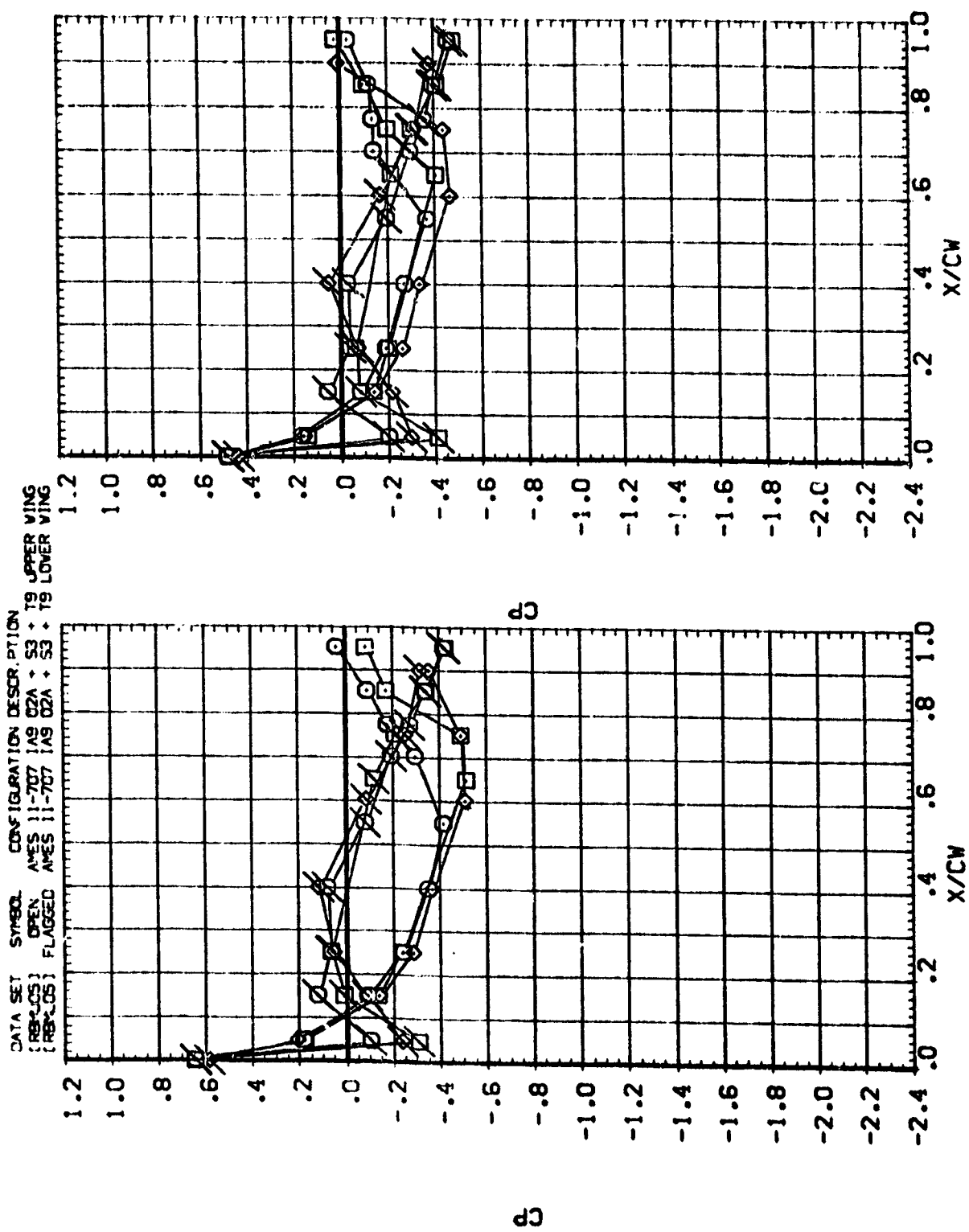
SYMBOL	Y/BV	BETAT	MACH	ALPHAT	PARAMETRIC VALUES
□	.299	-4.060	1.245	RLODR	-4.000
◇	.364	2.060		RJCFLR	.000
△	.427				.500
	.534				.000



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

==

SYMBOL	Y/BV	BETAT	MACH	PARAMETRIC VALUES
○	.673	-4.050	1.245	ALPHAT
□	.780	2.050		RUDDER
◇	.887			RJOFLLR
				-4.000
				.000
				.000
				.000



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

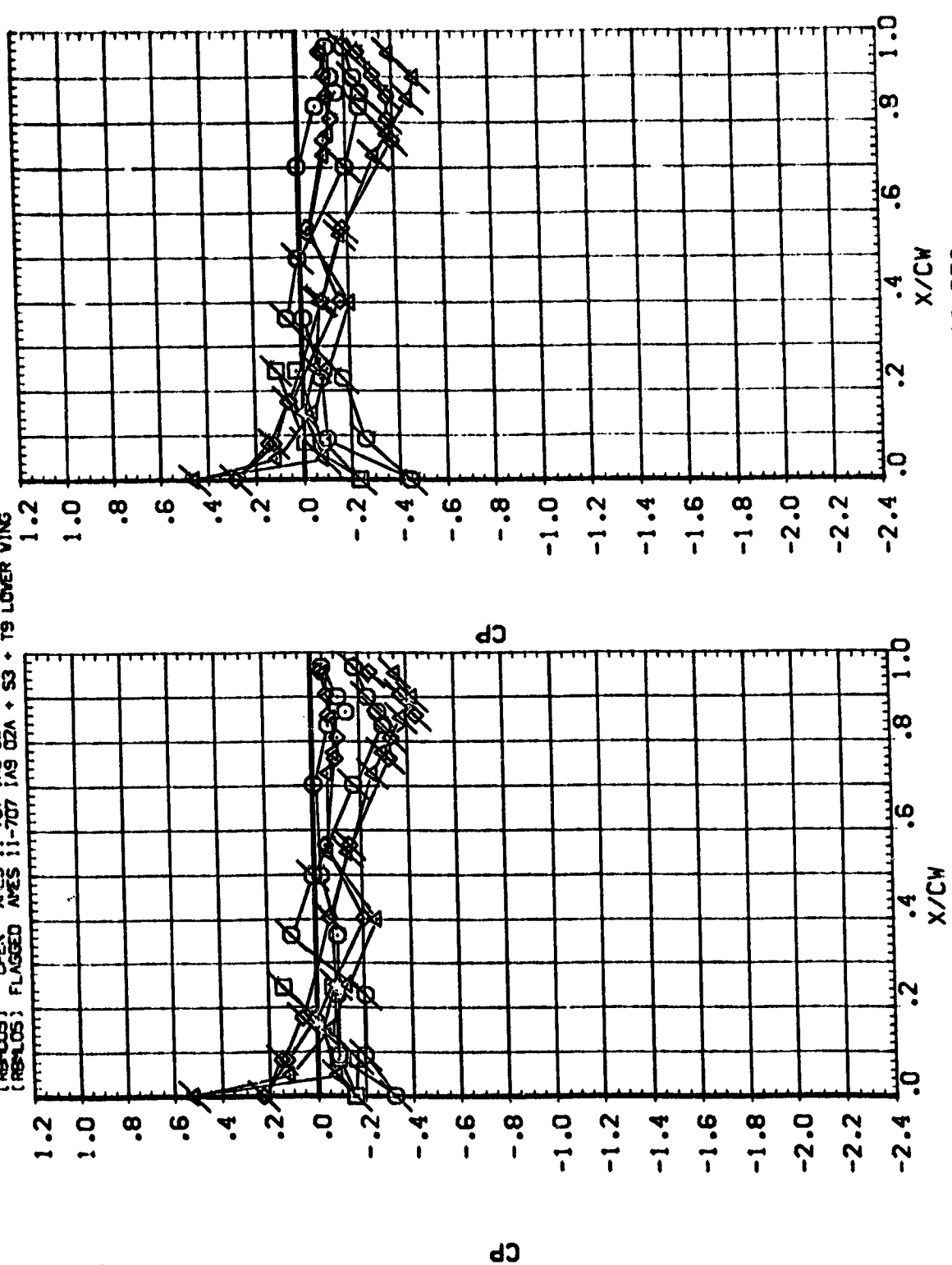


SYMBOL Y/BN .299
□ .364
◇ .427
△ .534

SETAT MACH
4.120 1.245
8.210

PARAMETRIC VALUES
ALPHAT .500
RUDDER .000
RUOFLR .000
ORBITC .000
ELEVON .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
[REPL05] OPEN AMES 11-707 [A9 02A + S3 + T8 UPPER WING
[REPL05] FLAGGED AMES 11-707 [A9 02A + S3 + T8 LOWER WING



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

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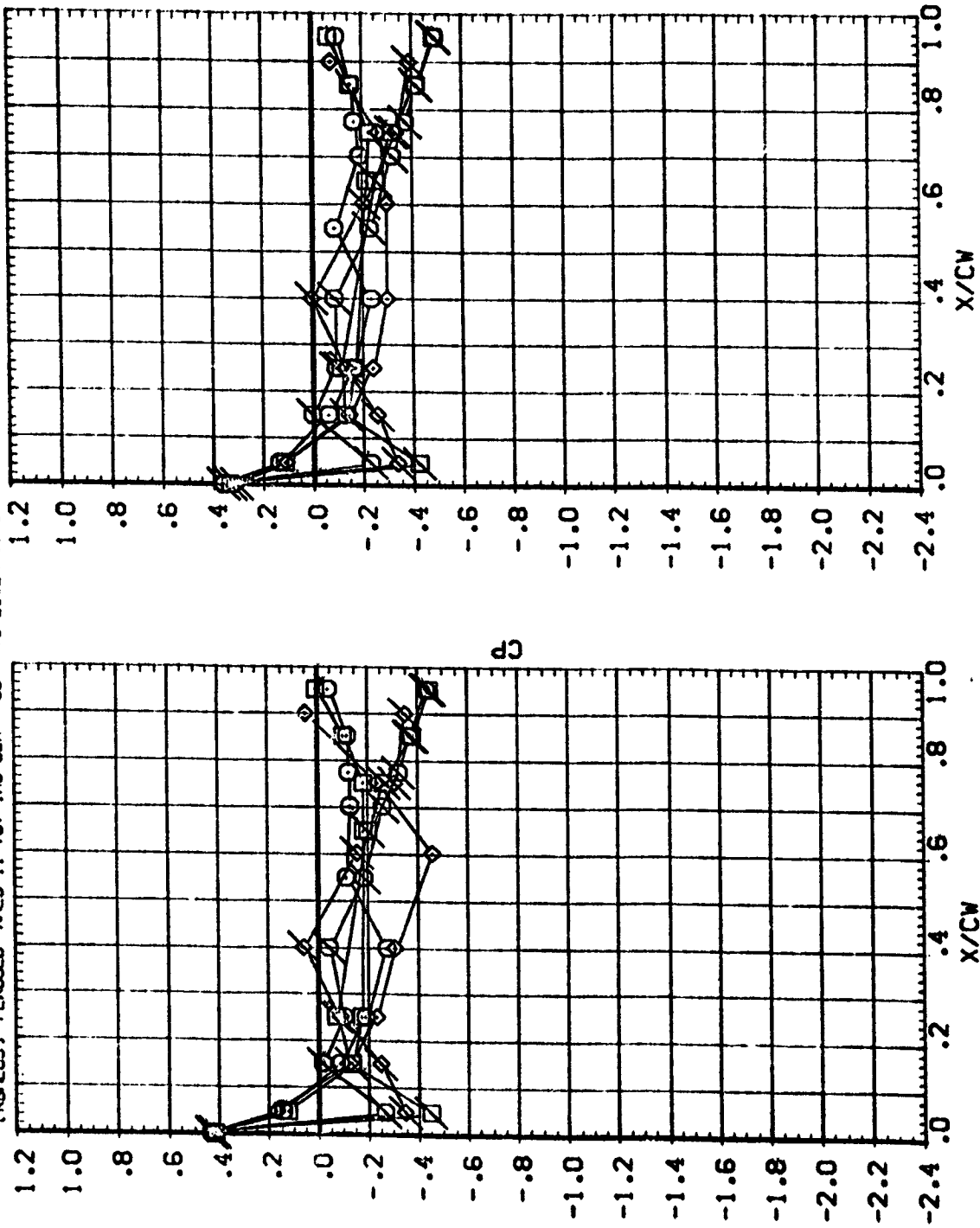
SYMBOL Y/BM
 .573
 .78C
 .887

BETA
 4.12C
 8.21C

MACH
 1.245

PARAMETRIC VALUES
 ALPHAAT -4.000
 RUDDER .000
 RUDFLR .000
 CRBINC .500
 ELEVEN .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (R8P4.05) OPEN ANES 11-707 1AS Q2A + S3 + 19 UPPER WING
 (R8P4.05) FLAGGED ANES 11-707 1AS Q2A + S3 + 19 LOWER WING



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

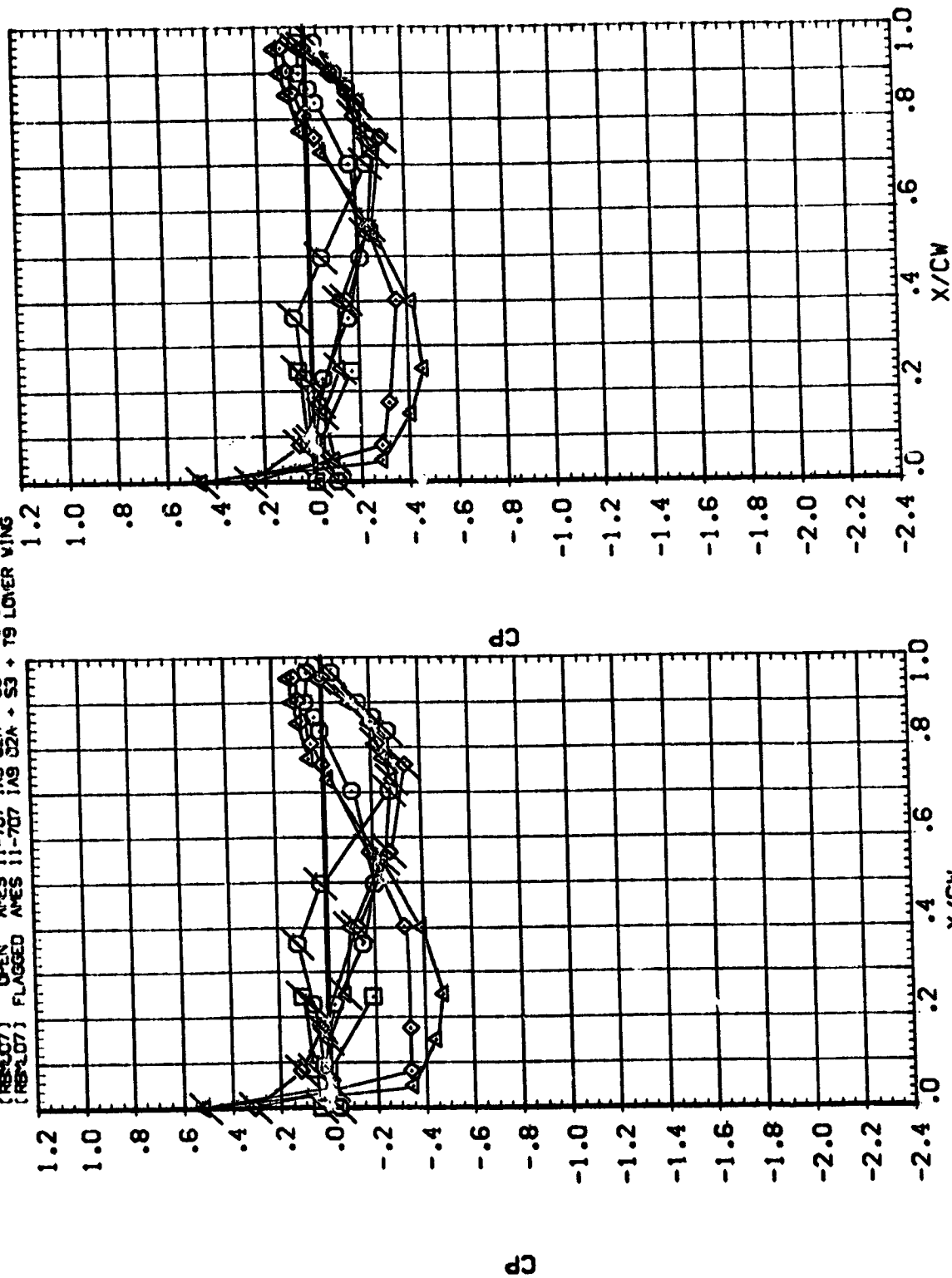
SYMBOL Y/BV .299
 .364
 .427
 .534

BETAT -4.050
 .020

MACH .597

PARAMETRIC VALUES
 ALPHAT .000
 RUDDER .000
 ELEVON .000
 PUJFLR .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RBSL07) OPEN AYES 11-707 1A9 02A + S3 + T9 UPPER WING
 (RBSL07) FLAGGED AYES 11-707 1A9 02A + S3 + T9 LOWER WING



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

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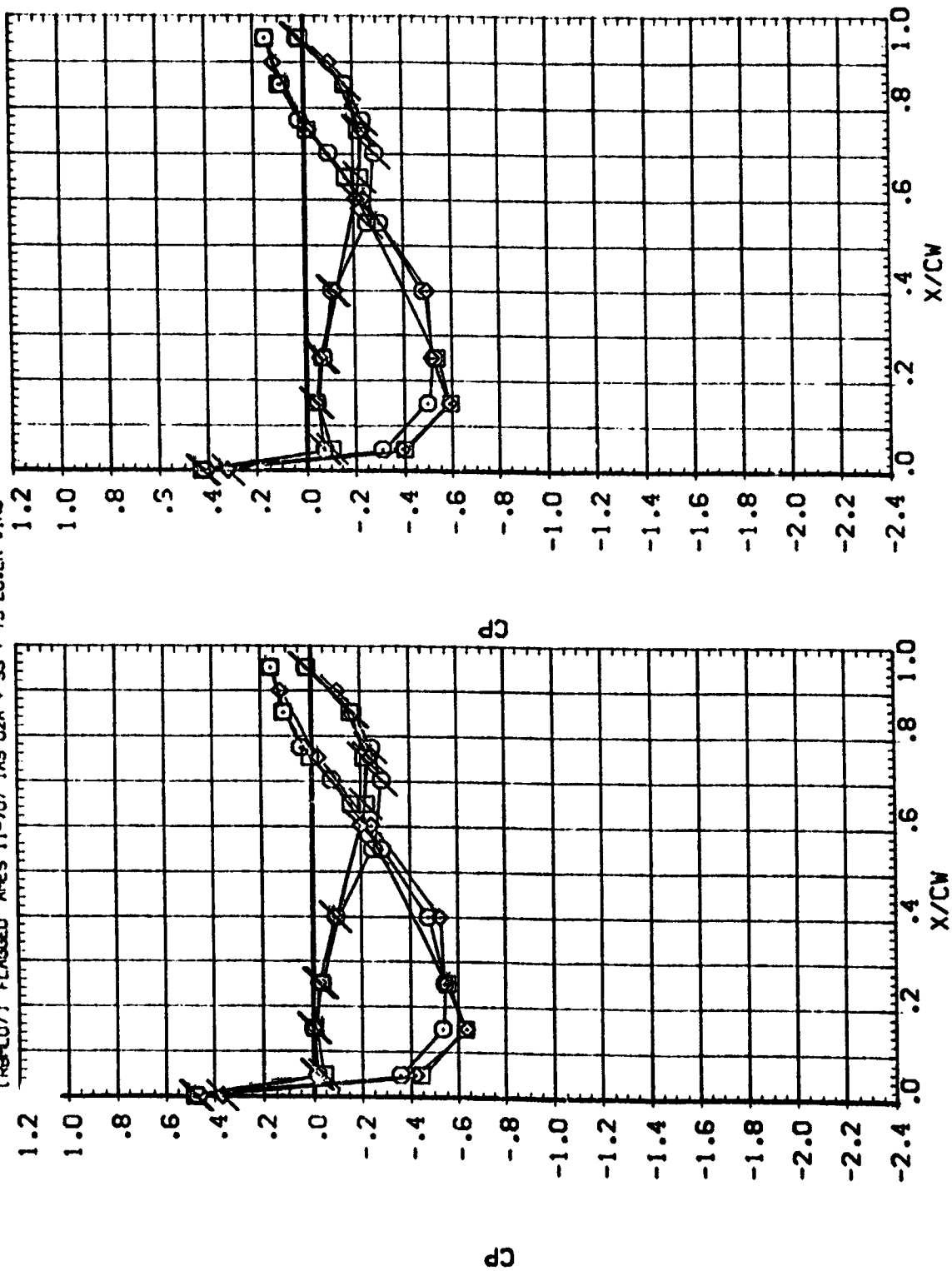
SYMBOL Y/BV
 .673
 .780
 .887

BETAT
 -4.050
 .020

MACH
 .597

PARAMETRIC VALUES
 ALPHAT .000
 RUDDER .000
 RUFLR .000
 CRGINC .500
 ELEVON .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RBL07) OPEN ANES 11-707 1A9 02A + S3 + T9 UPPER WING
 (RBL07) FLAGGED ANES 11-707 1A9 02A + S3 + T9 LOWER WING



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES



PARAMETRIC VALUES

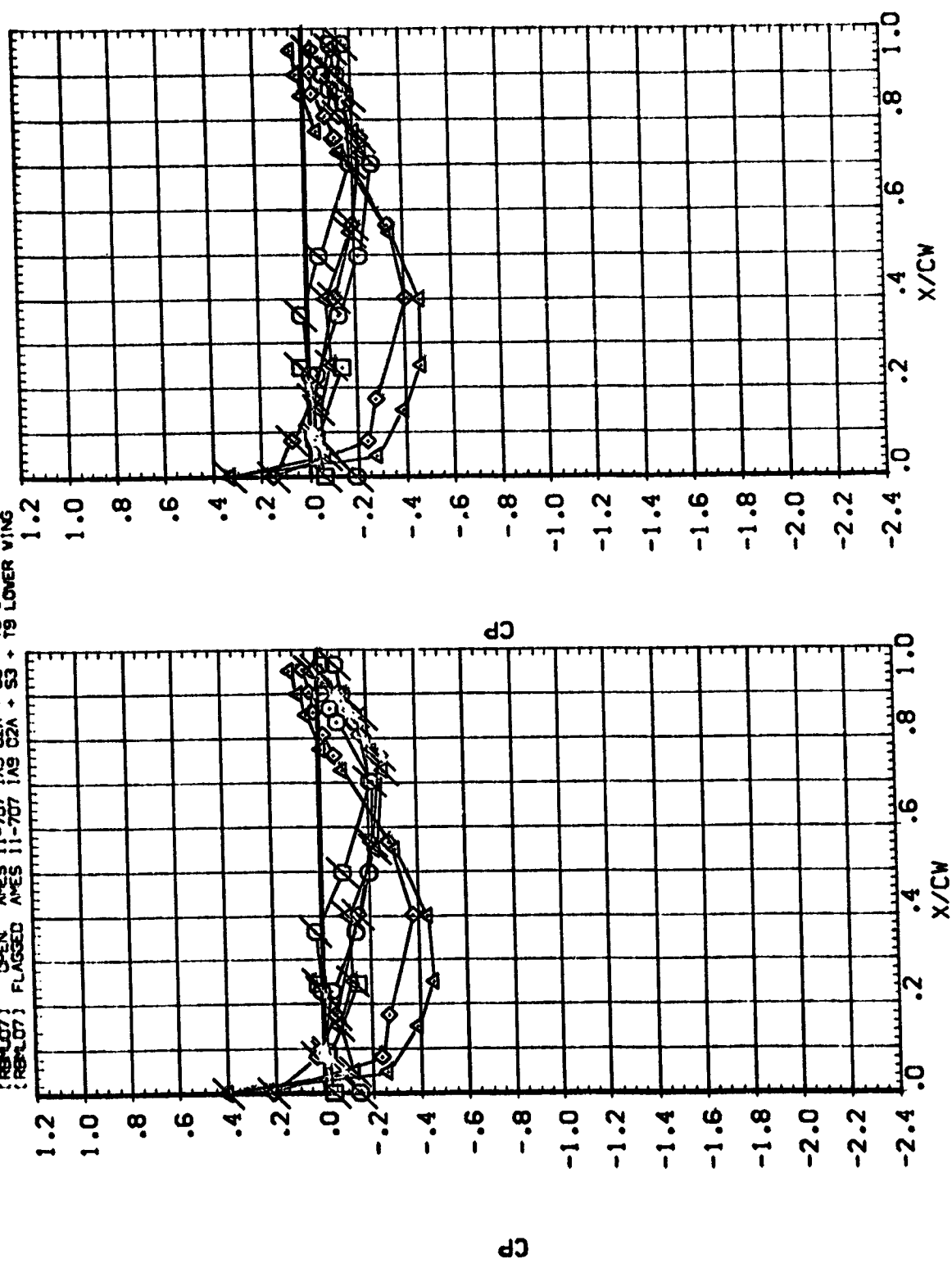
ALPHA	.000	ORBIT	.500
RUDDER	.000	ELEV	.000
RUDFLR	.000		

SYMBOL Y/BV BETAT MACH

○	.299	4.080	.597
□	.364	8.140	
◇	.427		
△	.534		

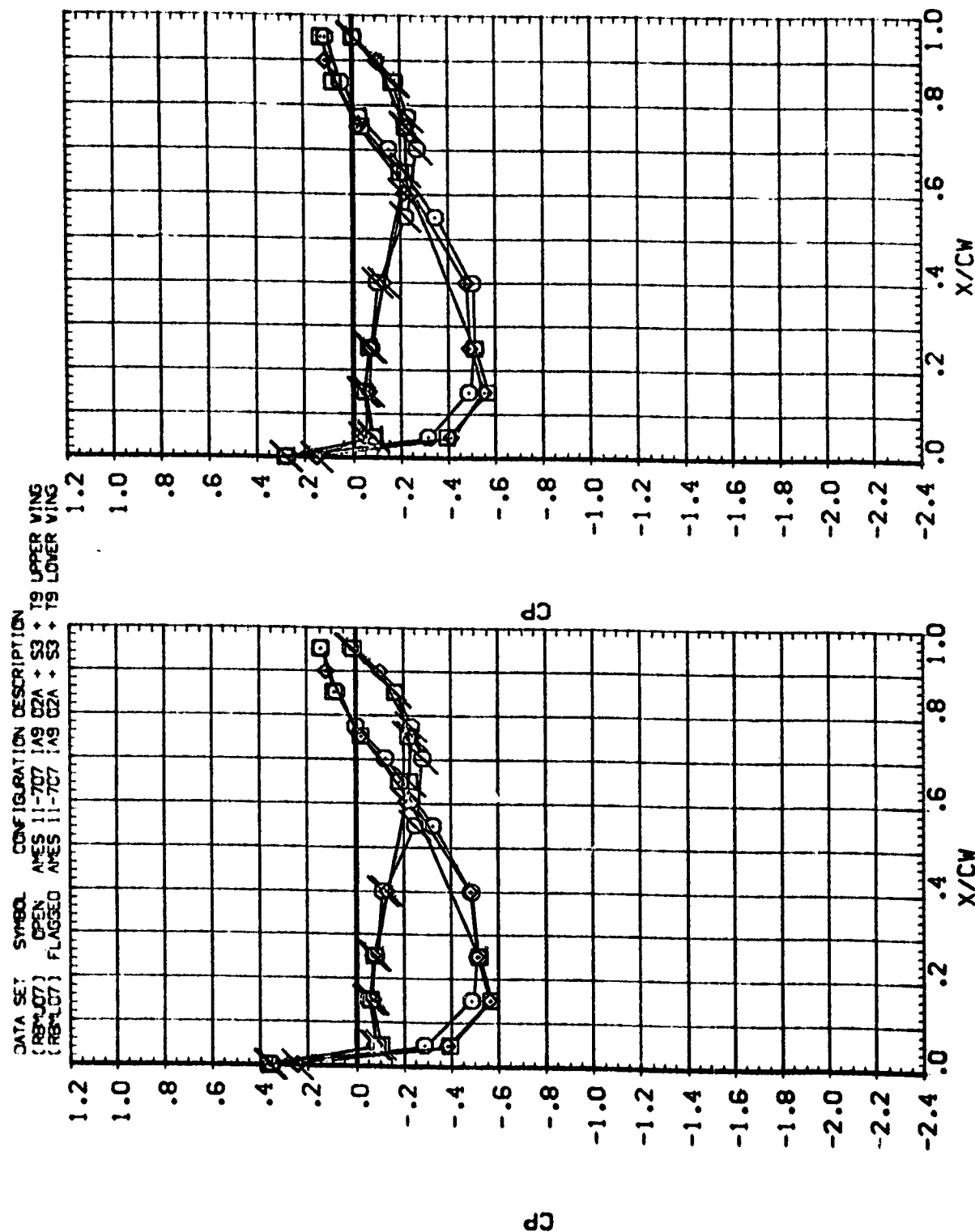
DATA SET SYMBOL CONFIGURATION DESCRIPTION

11-707	OPEN	AVES 11-707 1A9 02A + S3 + T9 UPPER VING
11-707	FLAGGED	AVES 11-707 1A9 02A + S3 + T9 LOWER VING



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

SYNCH	V/BV	BETAT	MACH	PARAMETRIC VALUES
0.00	.673	4.080	.597	ALPHAT .000
0.00	.78C	8.140		ORBITC .000
0.00	.887			ELEVON .000
				RJOFER .000



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

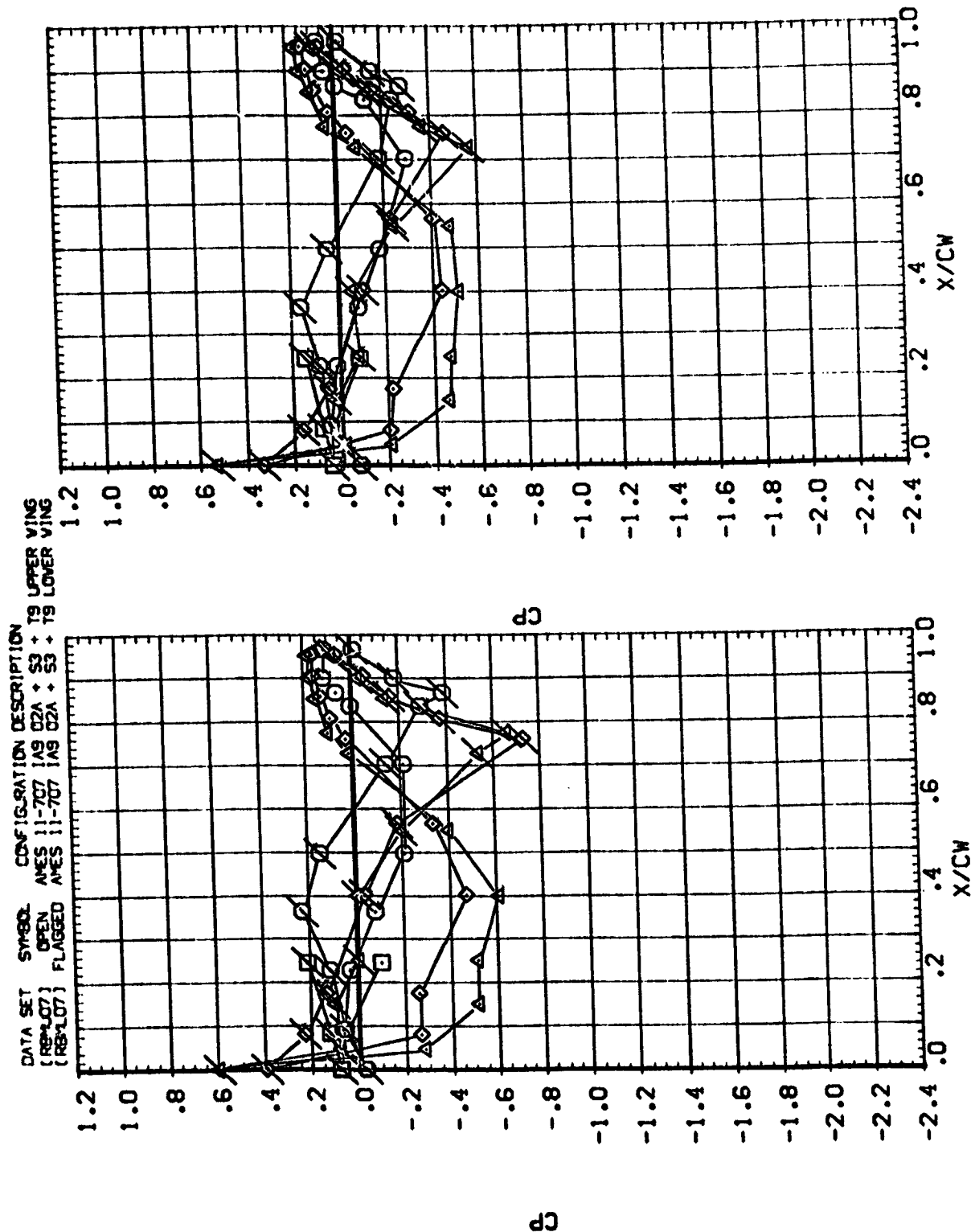
PARAMETRIC VALUES

ALPHA	.000	ORBIT	.500
RJDER	.000	ELEVON	.000
RJFLR	.000		

SYMBOL

V/BV	BETAT	MACH
.299	-4.080	.900
.364	.020	
.427		
.534		

○ □ ◇ △

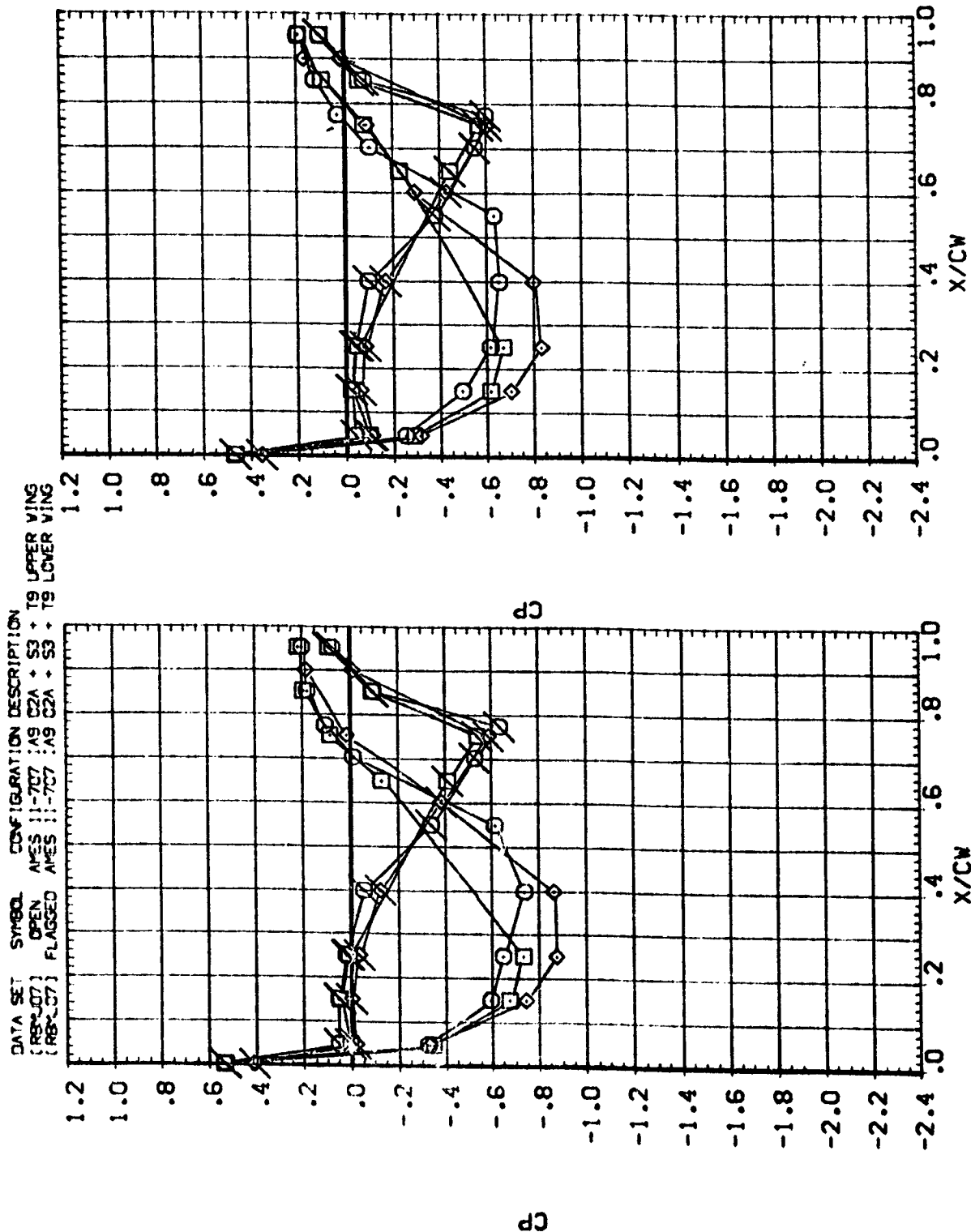


CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

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SYNOPSIS: Y/BV .573 BETAT -4.08C MACH .90C
 .78C .020
 .887

PARAMETRIC VALUES
 ALPHAT .00C CRBINC .50C
 RUDDER .00C ELEVON .00C
 RUDDLR .00C



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

SYMBOL

Y/BV
 .299
 .364
 .427
 .534

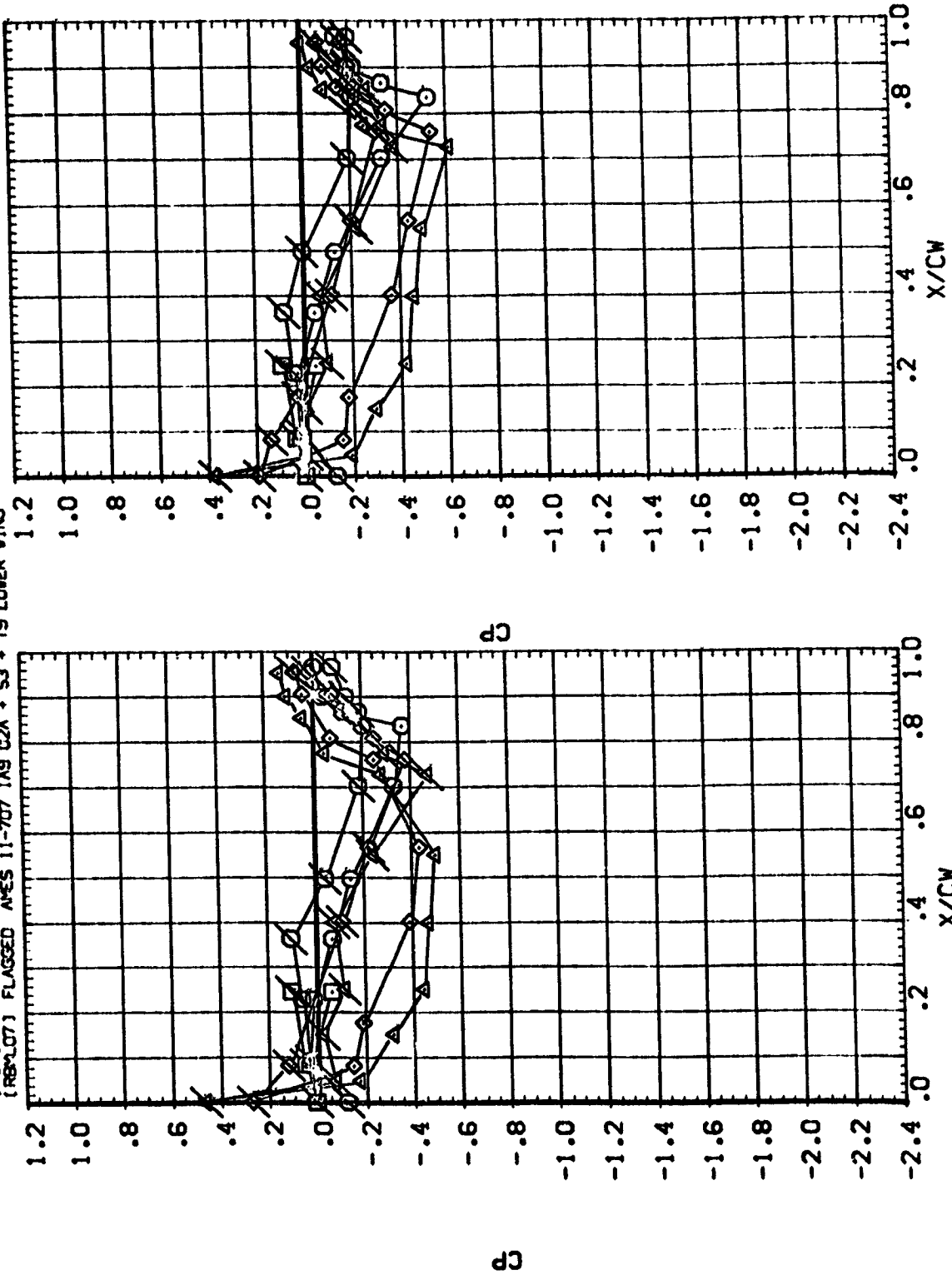
BETAT
 4.120
 8.220

MACH
 .900

PARAMETRIC VALUES
 ALPHAAT
 RUDDER
 RUDFLR

.500
 .000
 .000
 .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RBL007) OPEN ANES 11-707 1A9 02A + S3 + T9 UPPER WING
 (RBL007) FLAGGED ANES 11-707 1A9 02A + S3 + T9 LOWER WING

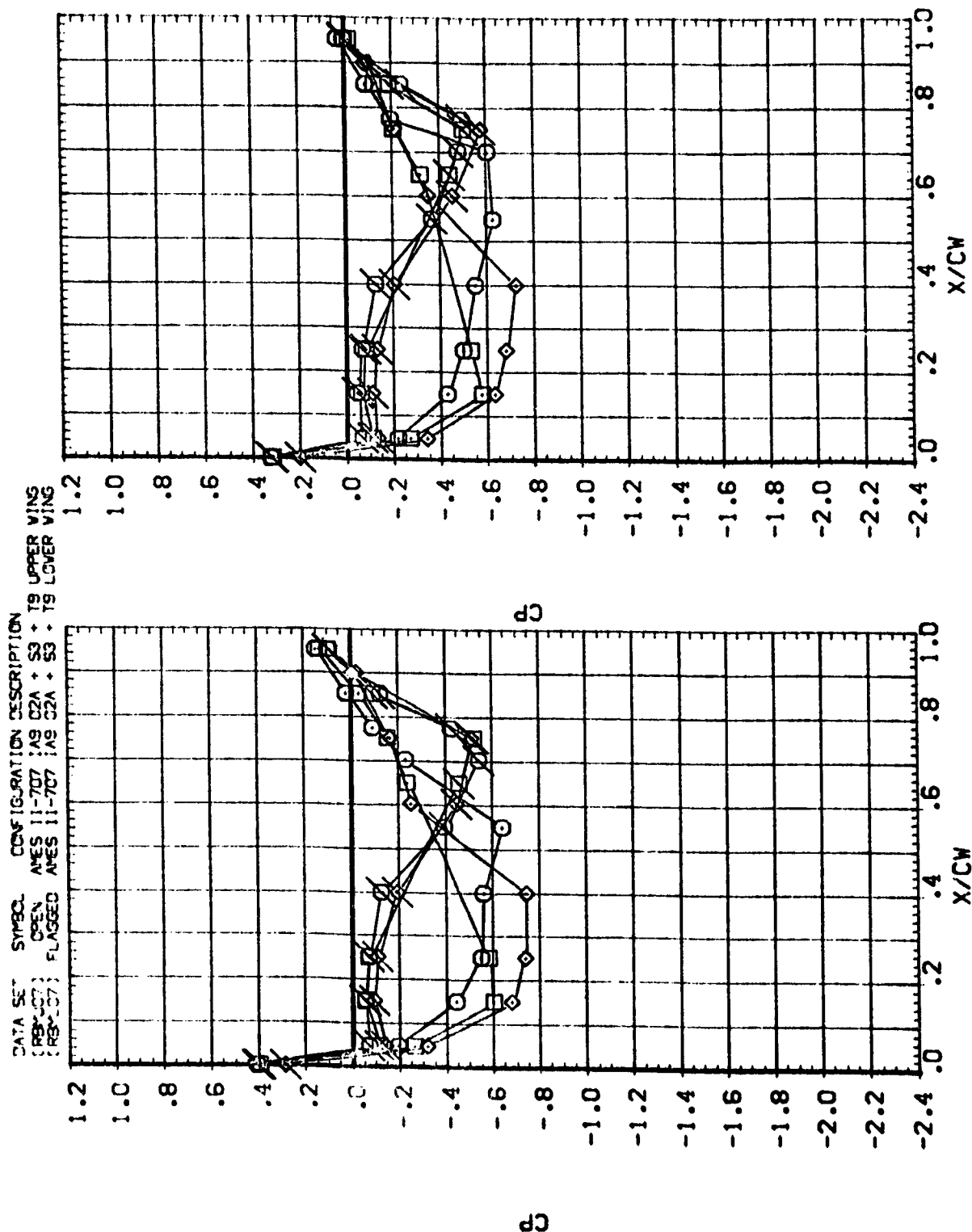


CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES



SYMBOL V/BV BETA* MACH
O .573 4.120 .900
□ .780 8.220
◇ .887

PARAMETRIC VALUES
ALPHA* .000 0.000 .500
RUDDER .000 .000 .000
RUJFLR .000 .000 .000



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

PARAMETRIC VALUES

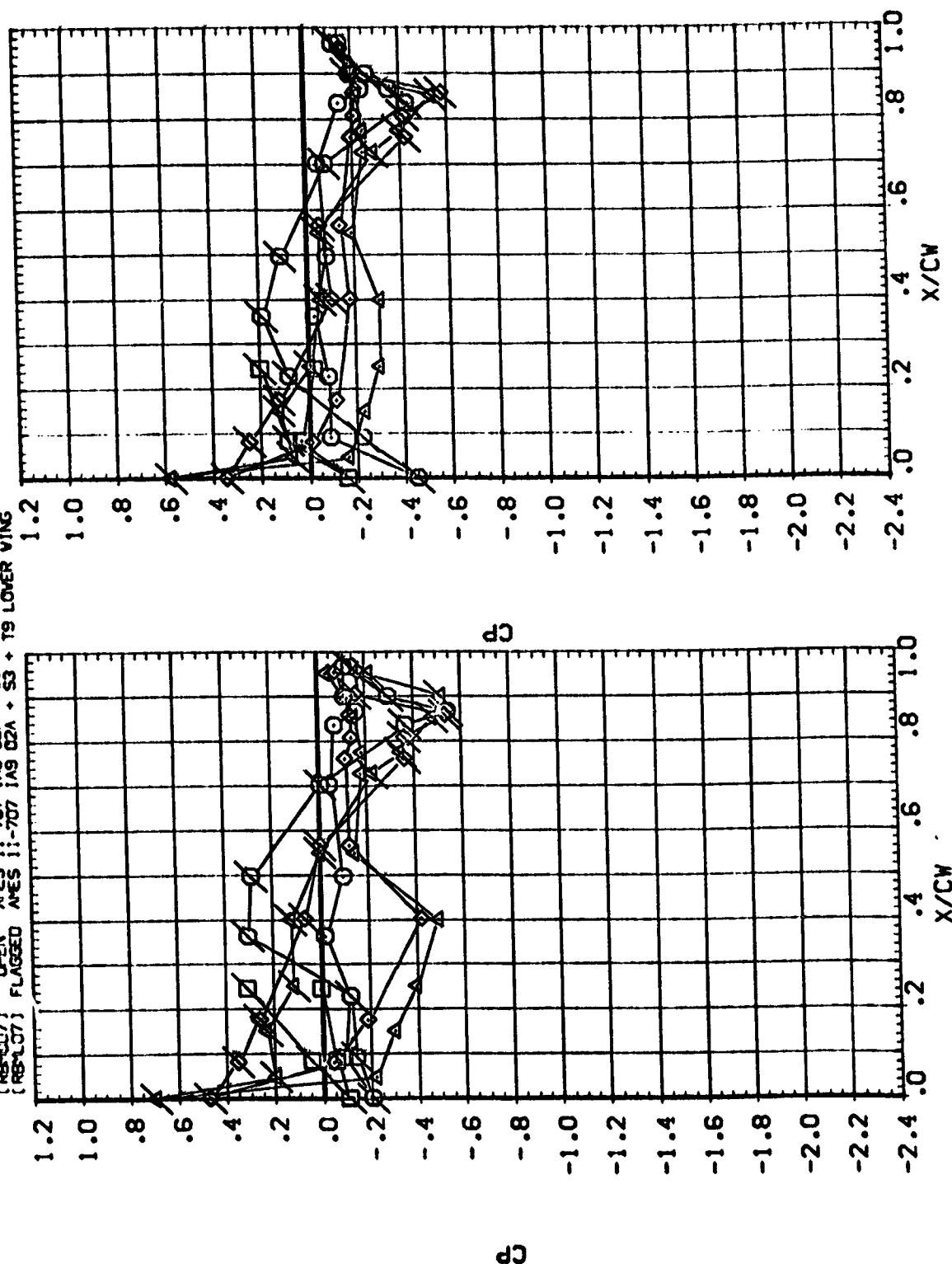
ALPHA	.000	ORBIT	.500
RUDDER	.000	ELEVON	.000
RJFLR	.000		

SYMBOL

Y/BV	BETAT	MACH
.299	-4.080	1.100
.364	2.070	
.427		
.534		

DATA SET SYMBOL CONFIGURATION DESCRIPTION

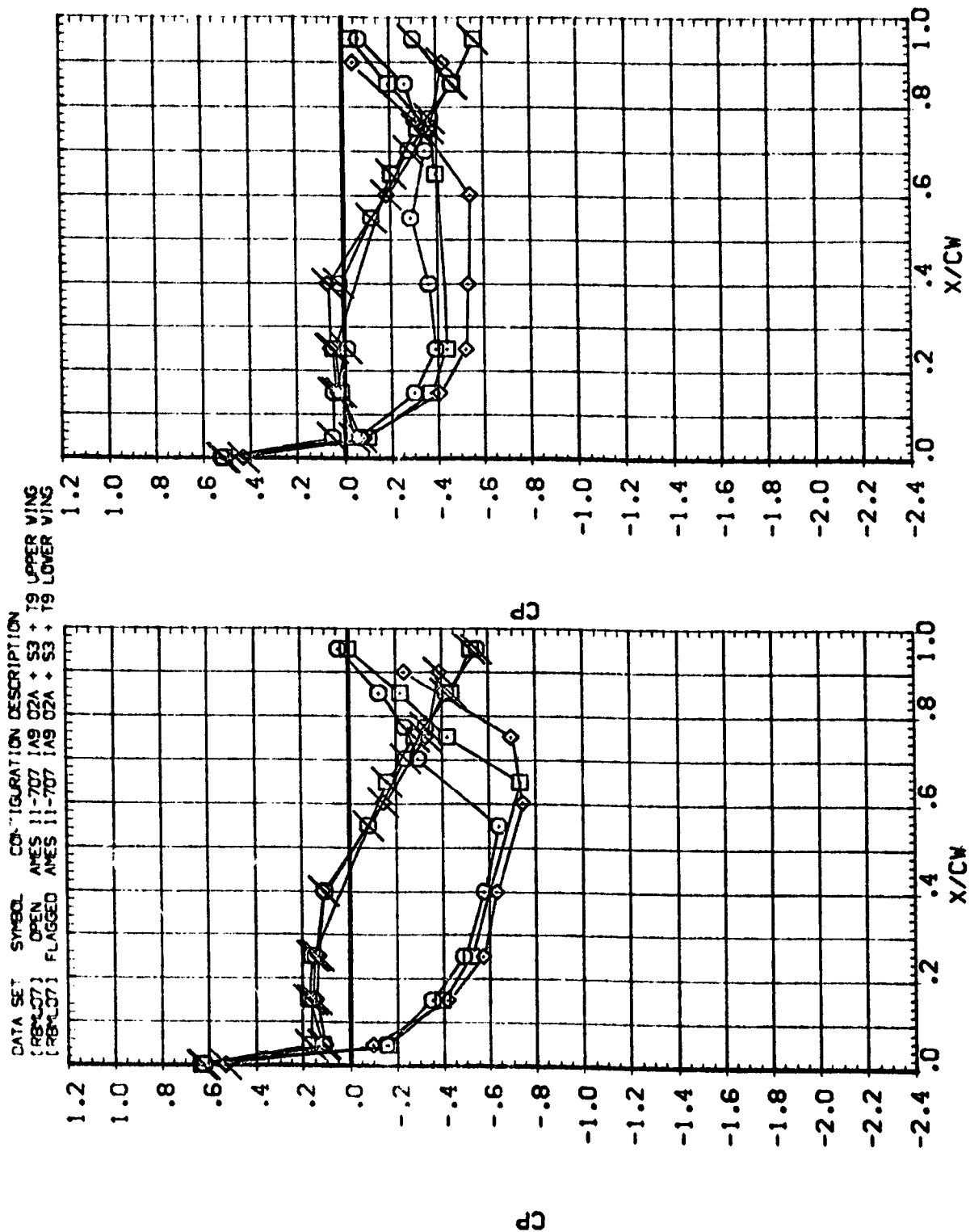
(RBS-07)	OPEN	AVES 11-707	1A9 02A + S3 + T9	UPPER WING
(RBS-07)	FLAGGED	AVES 11-707	1A9 02A + S3 + T9	LOWER WING



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

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SYMBOL	V/B ₀	BETA°	MACH	PARAMETRIC VALUES
○	.673	-4.080	1.100	ALPHAT .000 ORBINC .500
□	.780	2.270		RUDOEPR .000 ELEVEN .000
◇	.887			RUDFLR .000





SYMBOL
□
◇
△

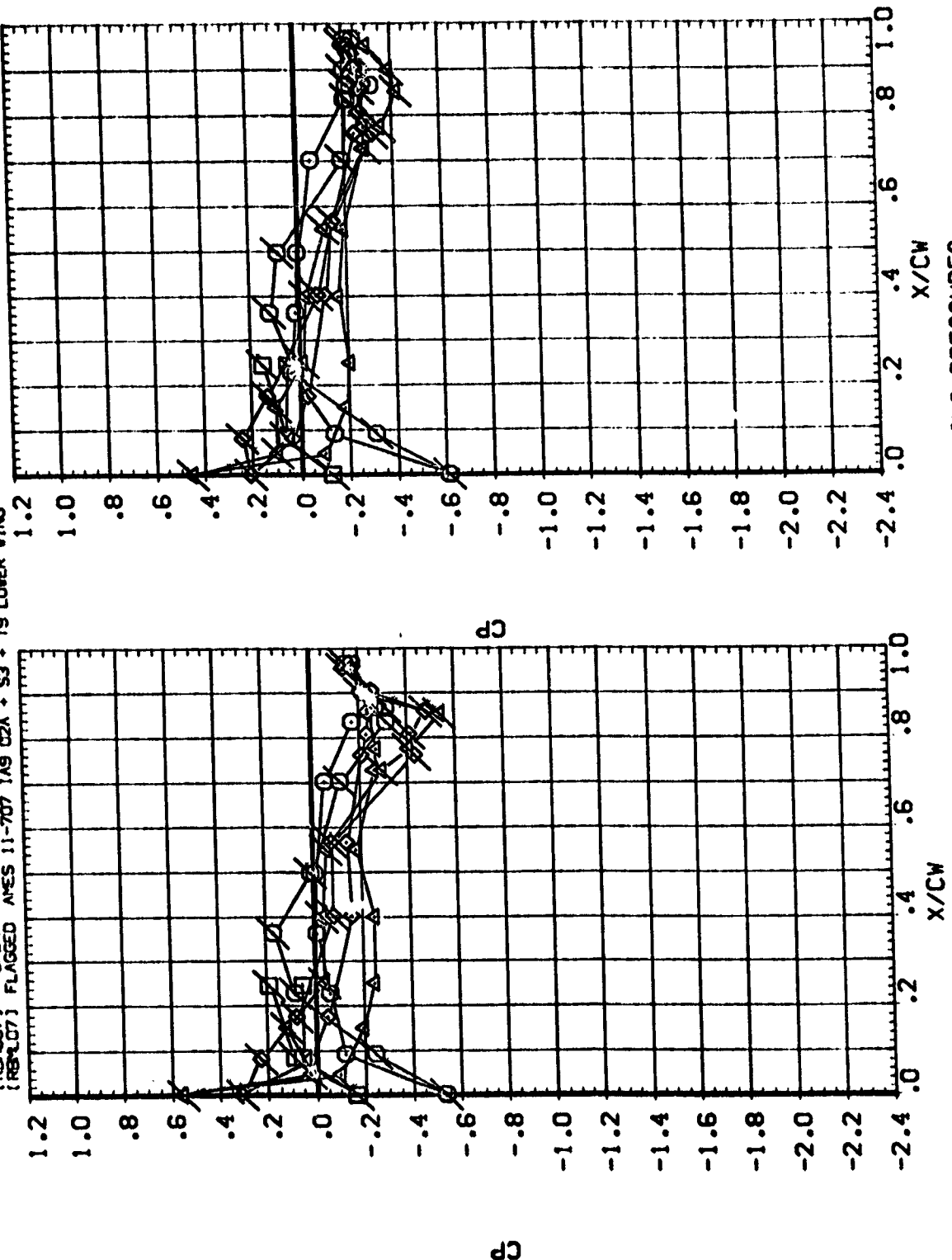
Y/BV
.299
.364
.427
.534

BETAT
4.140
8.250

MACH
1.100

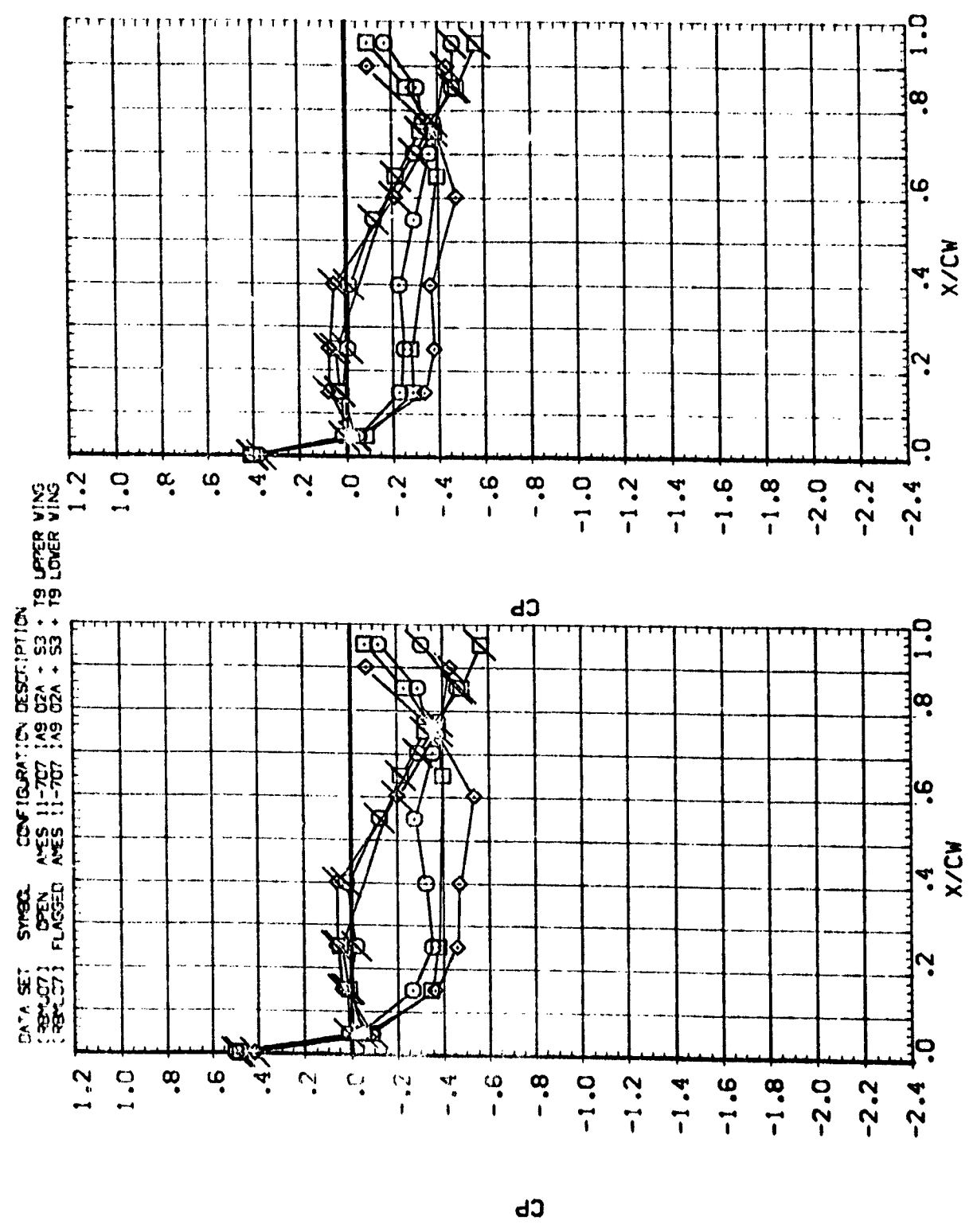
PARAMETRIC VALUES
ALPHAT
RJOOR
RJOFLR
.000
.000
.000
.000
.000
.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(REPLOT) OPEN AMES 11-707 IAG 02A + S3 + TS UPPER WING
(REPLOT) FLAGGED AMES 11-707 IAG 02A + S3 + TS LOWER WING



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

SYMBOL	Y/BU	BETA	MACH	PARAMETRIC VALUES
○	.673	4.14C	1.100	ALPHAT .000
□	.78C	8.25C		RODER .000
◇	.887			ELEVON .000
				ROFLR .000



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES



SYMBOL
 O
 □
 △

Y/BU
 .299
 .364
 .427
 .534

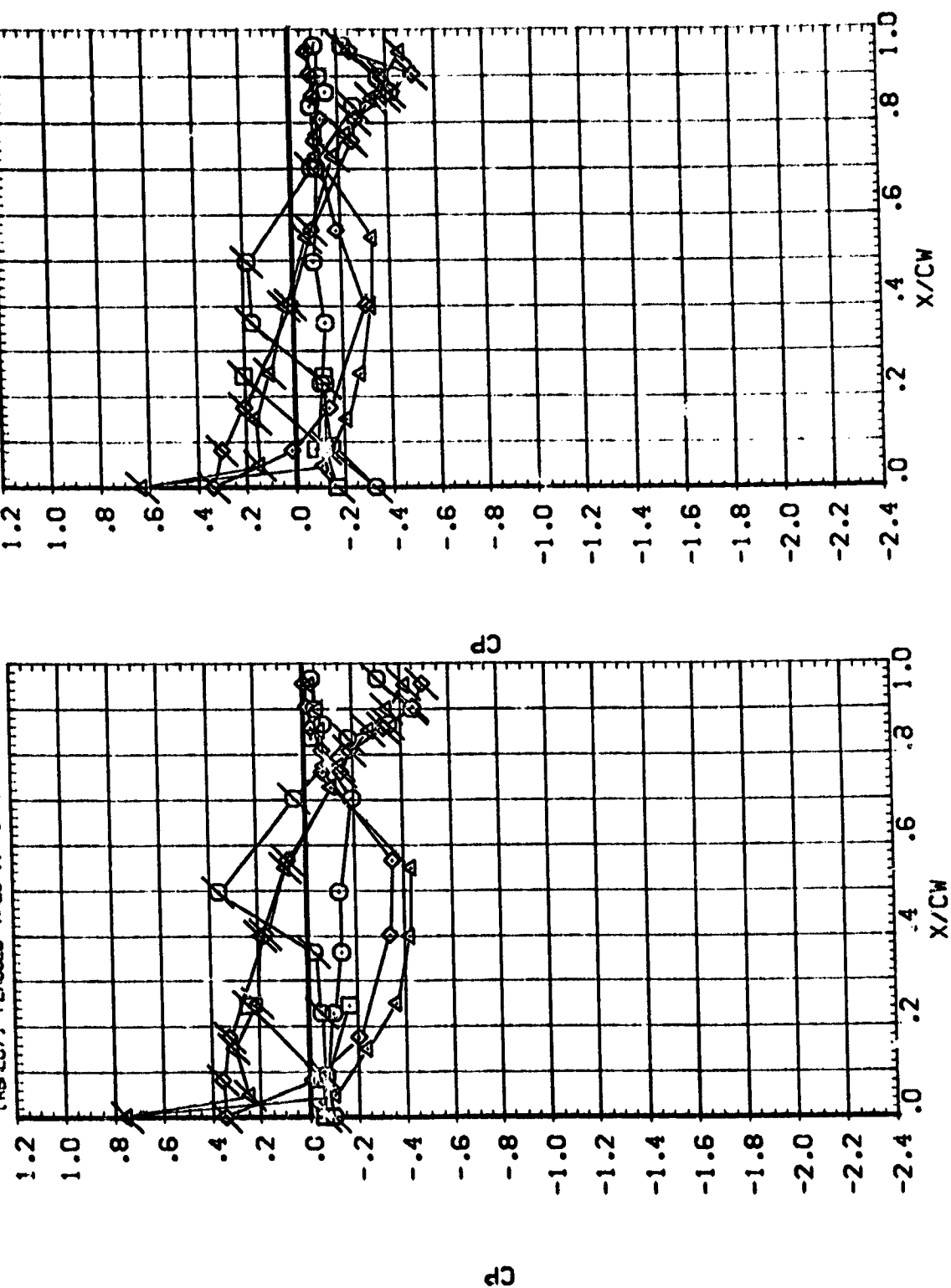
BETAT
 -4.080
 2.060

MACH
 1.249

ALPHAT
 RUDER
 RUDLR

PARAMETRIC VALUES
 .000
 .000
 .000
 .500
 .000
 .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RBPLOT) OPEN AMES 11-707 1A9 02A + S3 + T9 UPPER WING
 (RBPLOT) FLAGGED AMES 11-707 1A9 02A + S3 + T9 LOWER WING

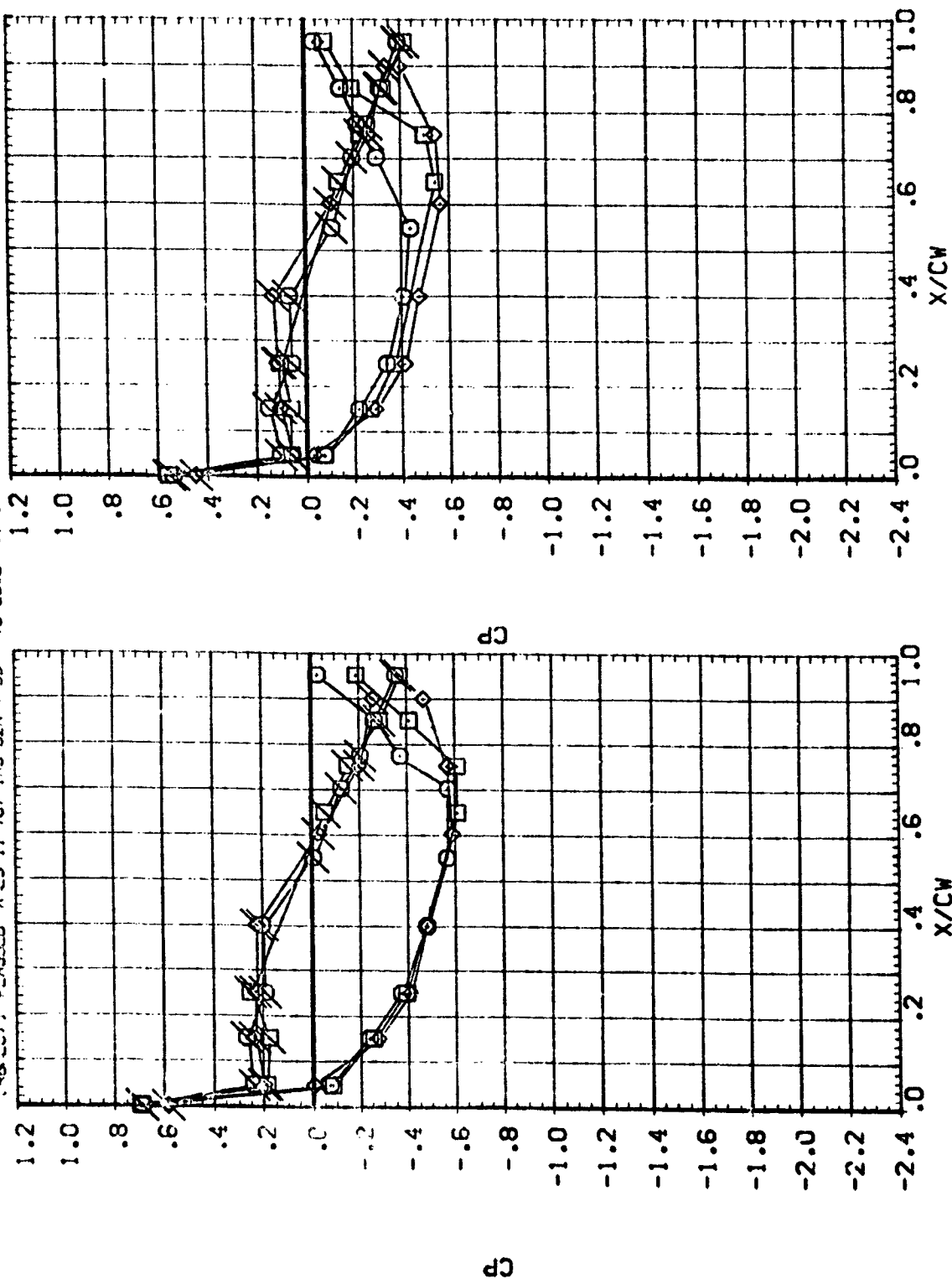


CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

PARAMETRIC VALUES

ALPHA	.000	OSB/INC	.500
RUDDER	.000	ELEVON	.000
RUDDER	.000		

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RBLCT) OPEN AMES 11-707 [A9 C2A + S3 + T9 UPPER WING
 (RBLCT) FLAGGED AMES 11-707 [A9 C2A + S3 + T9 LOWER WING



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

SYMBOL Y/BN

□ .299

□ .364

◇ .427

△ .534

BETAT MACH

4.100 1.249

8.190

PARAMETRIC VALUES

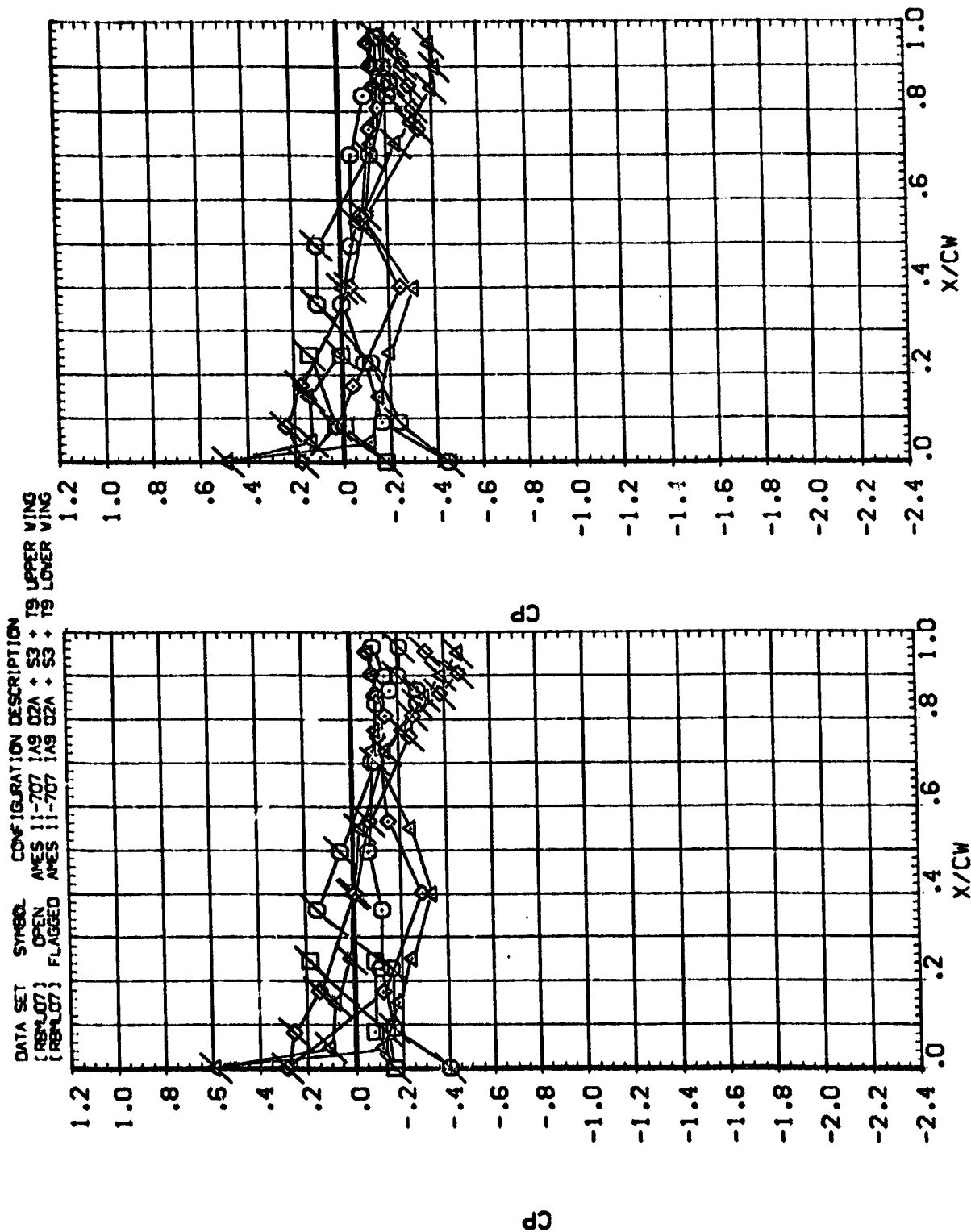
ALPHAT .000

RJODER .000

RJDFLR .000

ORBIN .500

ELEVON .000

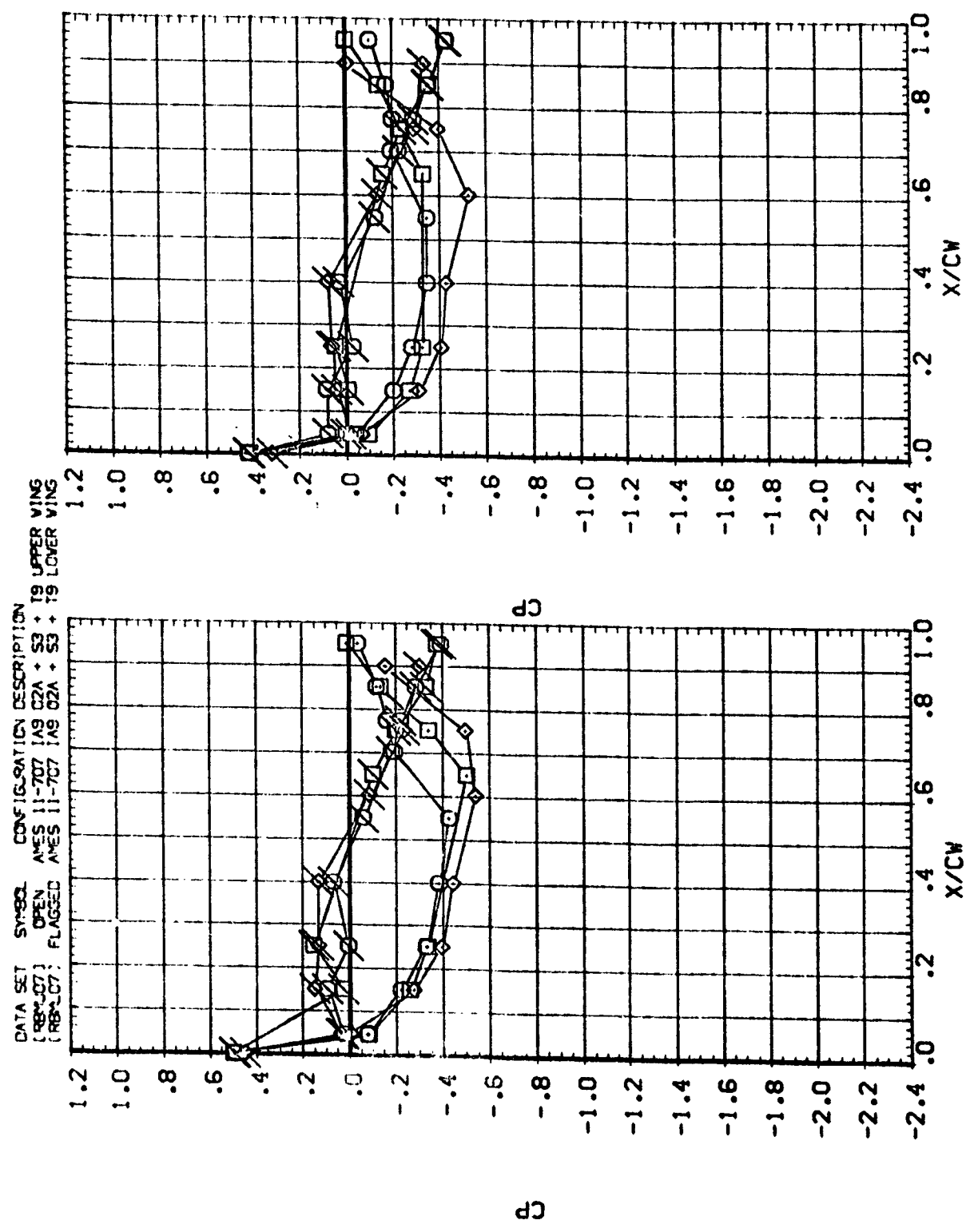


CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES



SYMBOL: Y/BV BETAT MACH
.673 4.100 1.249
.780 8.190
.987

PARAMETRIC VALUES
ALPHA: .000
RUDDER: .000
RUDFLR: .000
ORBITC: .500
ELEVON: .000



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

PARAMETRIC VALUES

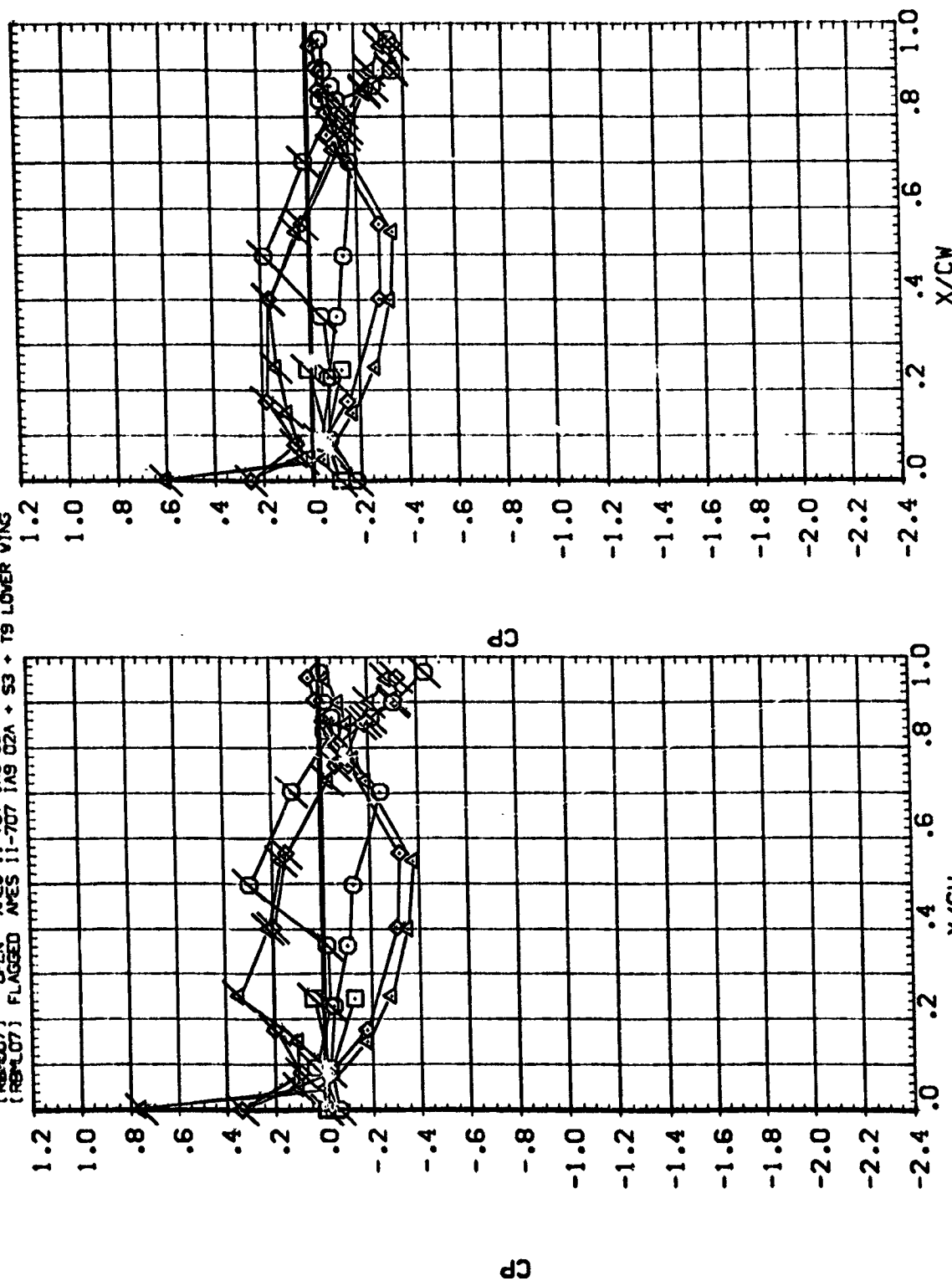
ALPHA	.000	ORBITAL	.500
RUDDER	.000	ELEVON	.000
RJDFLR	.000		

Y/BV BETAT MACH

.299	-4.080	1.395
.364	.020	
.427		
.534		

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RBL07)	OPEN	APES 11-707 1A9 02A + S3 + T9 UPPER WING
(RBL07)	FLAGGED	APES 11-707 1A9 02A + S3 + T9 LOWER WING



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

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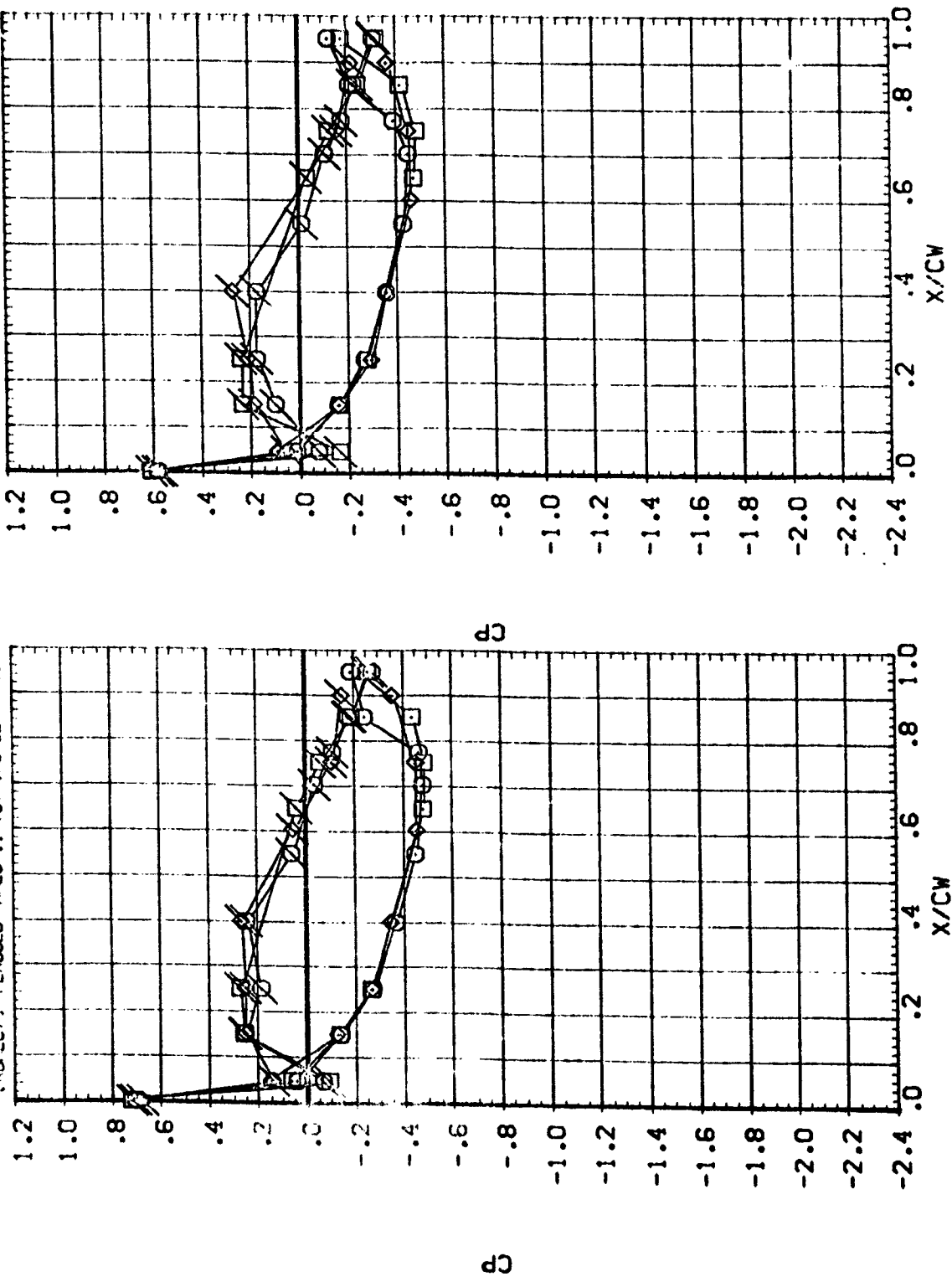
SYMBOL Y/BV
 O .673
 O .780
 O .887

BETA -4.080
 .020

MACH 1.395

PARAMETRIC VALUES
 ALPHA .000
 RUDDER .000
 ELEVON .000
 RUDFLR .000
 .500
 .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RBLG7) OPEN AMES 11-707 (A9 O2A + S3 + 19 UPPER WING
 (RBLG7) FLAGGED AMES 11-707 (A9 O2A + S3 + 19 LOWER WING



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

PARAMETRIC VALUES

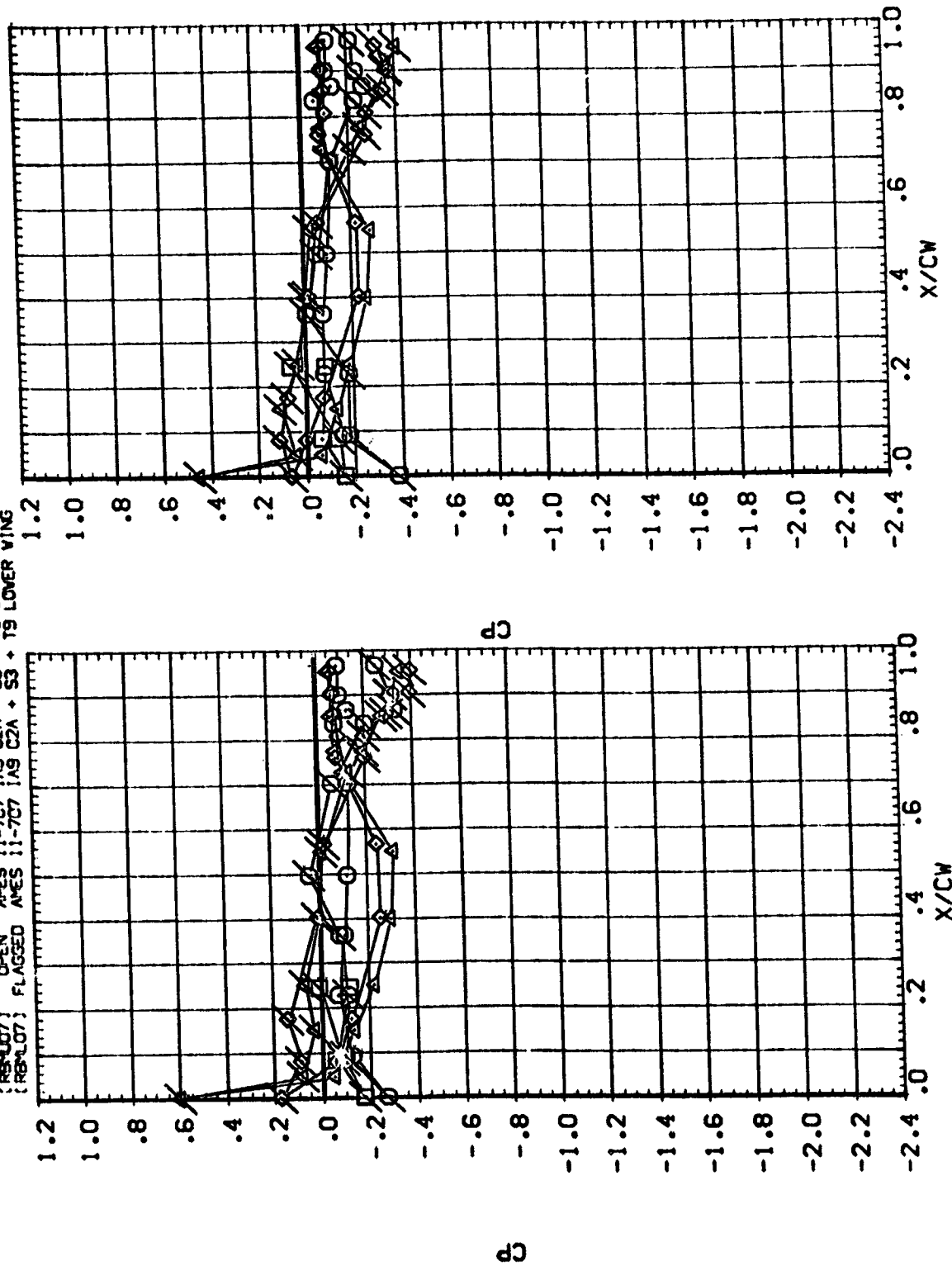
ALPHAT	.000	CRBINC	.500
RDOER	.000	ELEVON	.000
RDOFLR	.000		

SYMBOL Y/BV BETAT MACH

○	.299	4.110	1.395
□	.364	6.210	
◇	.427		
△	.534		

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(R8107)	OPEN	AMES 11-707 1A9 02A + S3	T9 UPPER WING
(R8107)	FLAGGED	AMES 11-707 1A9 02A + S3	T9 LOWER WING

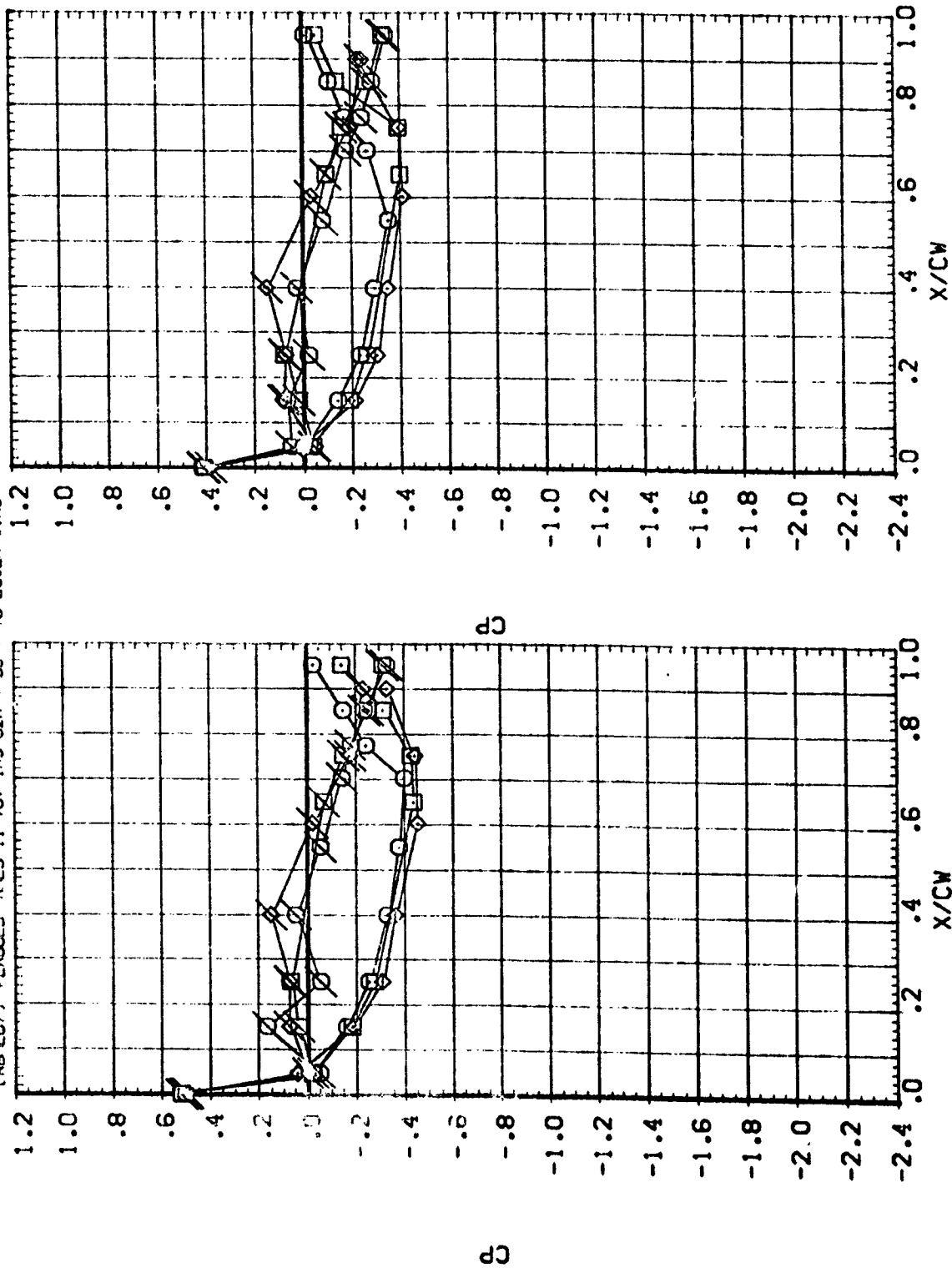


CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

SYMBOL V/B₀ BETAT MACH
 .673 4.110 1.395
 .780 8.210
 .687

PARAMETRIC VALUES
 ALPHAT .000 ORBINC .500
 RUDDER .000 ELEVON .000
 RUDDER .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RBM-07) OPEN ANES 11-707 IAS 02A + S3 + T9 UPPER WING
 (RBM-07) FLAGGED ANES 11-707 IAS 02A + S3 + T9 LOWER WING



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

SYMBOL

○ □ ◇ △

V/BN .299
.364
.427
.534

BETAT -4.030
.020

MACH .598

PARAMETRIC VALUES

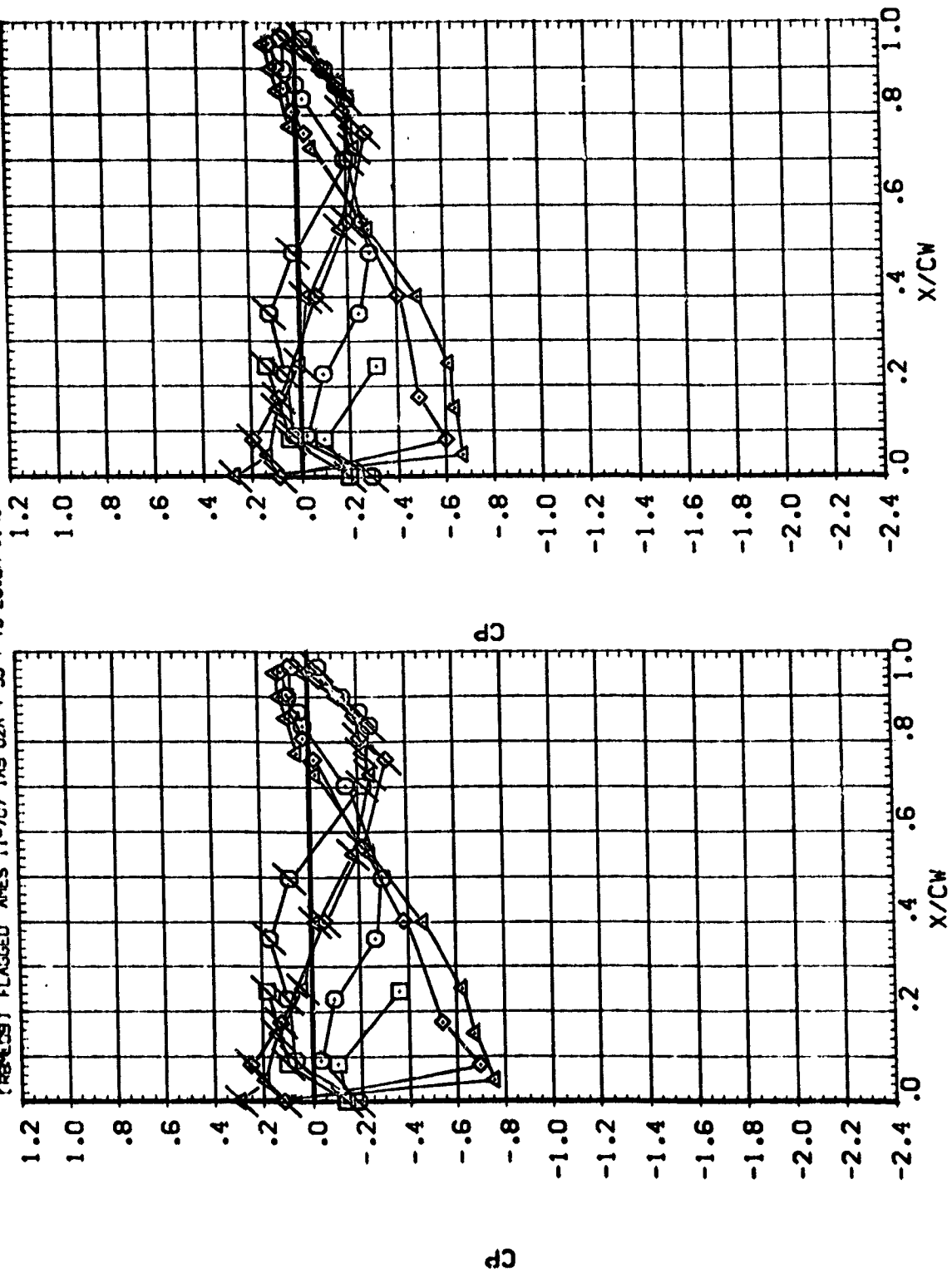
ALPHAT 4.000
RUDDER .000
RUDELR .000

ORBNIC .500
ELEVON .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(REPLACES) OPEN ANES 11-707 1A9 02A + S3 + T9 UPPER WING

(REPLACES) FLAGGED ANES 11-707 1A9 02A + S3 + T9 LOWER WING



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

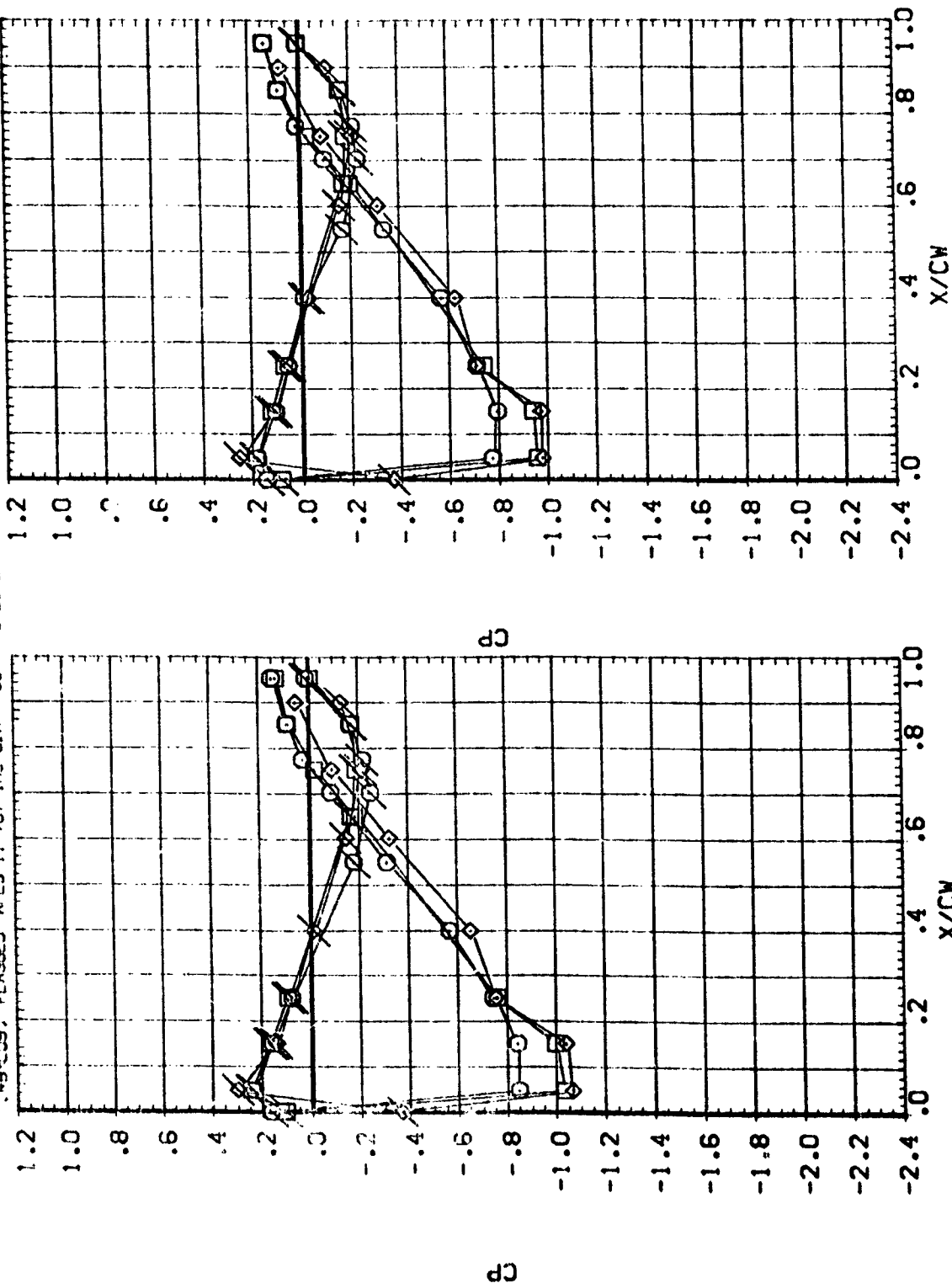
11

SYMBOL V/BV
 () .673
 () .78C
 () .887

BETA MAC-
 -4.03C .598
 .02C

PARAMETRIC VALUES
 ALPHAT 4.000 DRBINC .500
 RUDDER .000 ELEVEN .000
 ROLFIP .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RBC09) OPEN ANES 11-707 (A9 02A - S3 + T9 UPPER WING
 (RBC09) FLAGGED ANES 11-707 (A9 02A - S3 + T9 LOWER WING



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES



SYMBOL
 ○ □ ◇ △

Y/BN
 .289
 .364
 .427
 .534

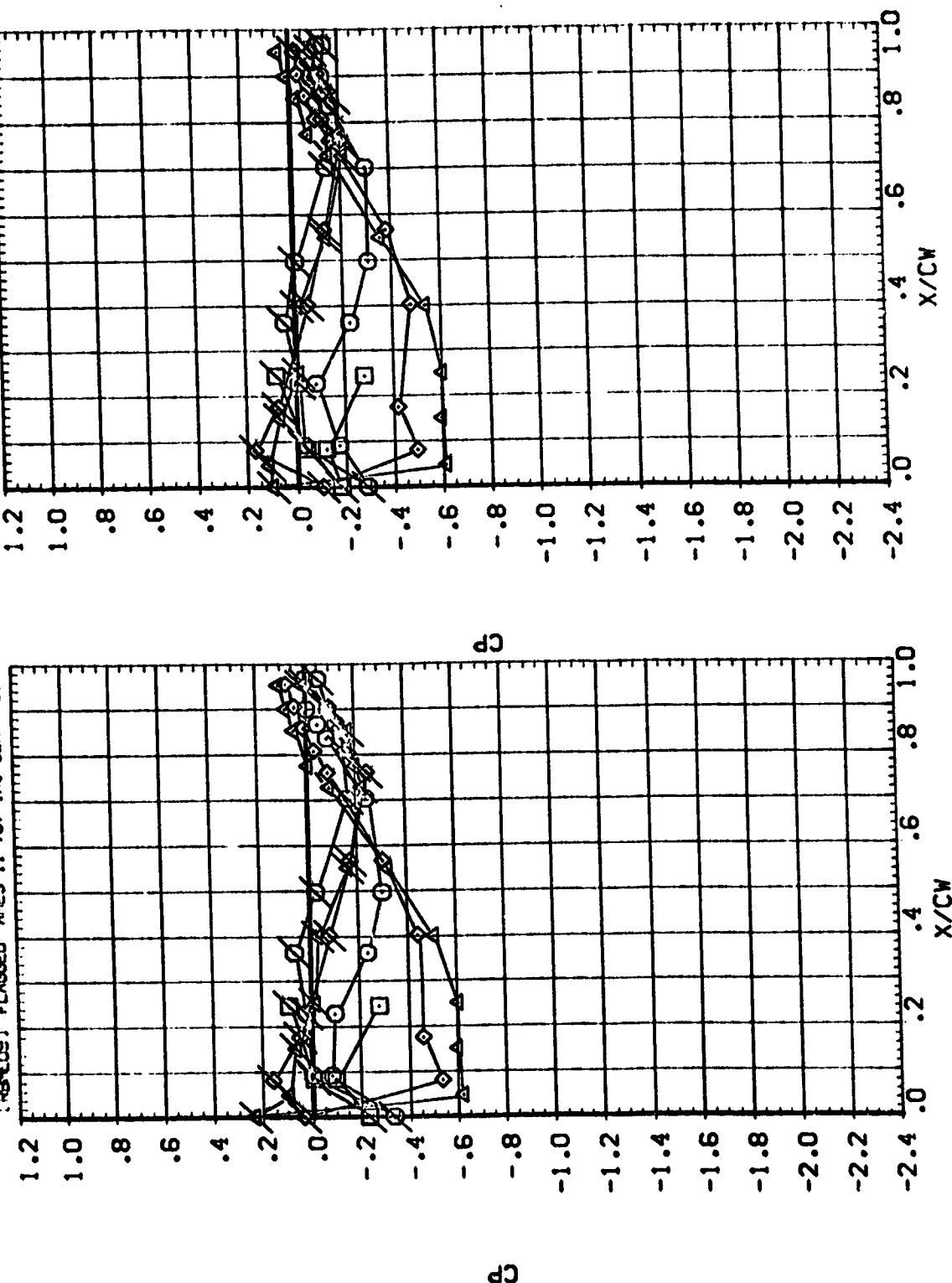
BETAT
 4.080
 8.150

MACH
 .598

ALPHAT
 RUOOR
 RUOFLR

PARAMETRIC VALUES
 4.000 ORBINC
 .000 ELEVON
 .500 .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 [RELOC] OPEN ANES 11-707 IAS OZA + S3 + T9 UPPER WING
 [RELOC] FLAGGED ANES 11-707 IAS OZA + S3 + T9 LOWER WING

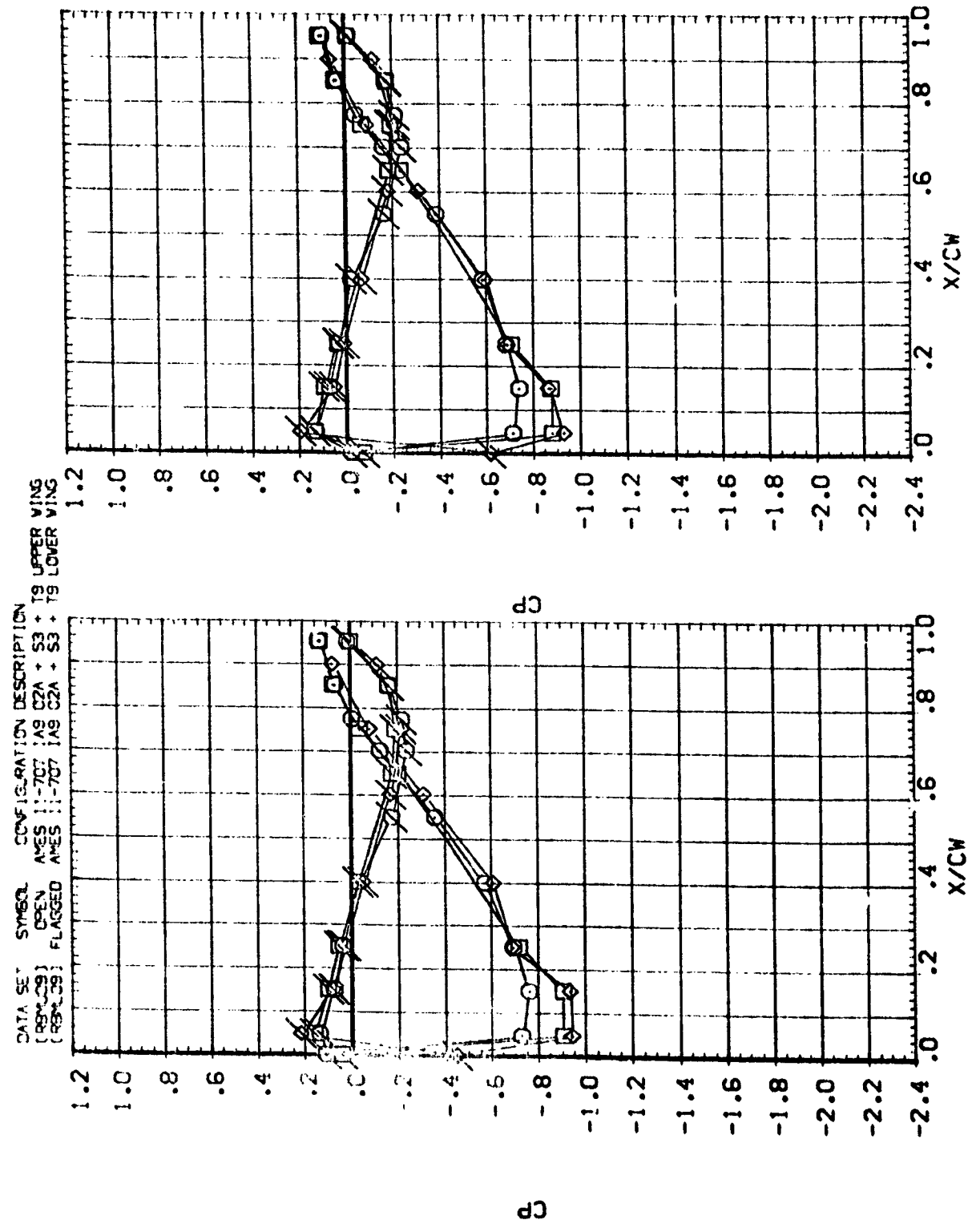


CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

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SYNOPSIS V/SW BETAT MACH
 .673 4.08C .598
 .78C 8.15C
 .887

PARAMETRIC VALUES
 ALPHAT 4.000 DBS:NC .500
 RUDDER .000 ELEVEN .000
 RUJFLR .000





SYMBOL
O
□
◇
△

Y/BV
.299
.364
.427
.534

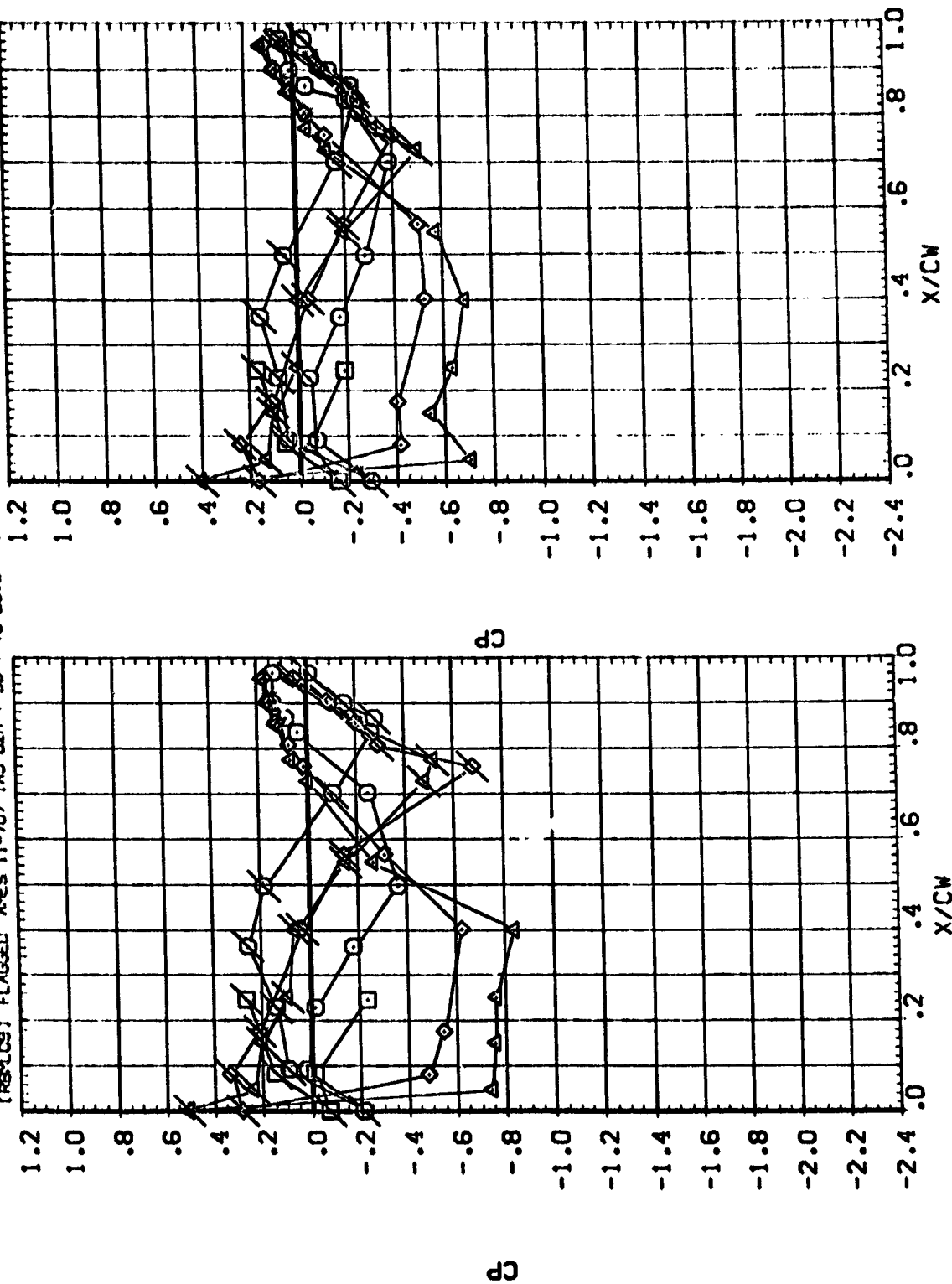
BETA°
-4.08C
2.07D

MACH
.899

PARAMETRIC VALUES
ALPHAT 4.000
FLUDDER .000
RUFELR .000

ORBITC .500
ELEVON .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
[REPLACES] OPEN AVES 11-707 [AS 02A + S3 + T9 UPPER WING
[REPLACES] FLAGGED AVES 11-707 [AS 02A + S3 + T9 LOWER WING

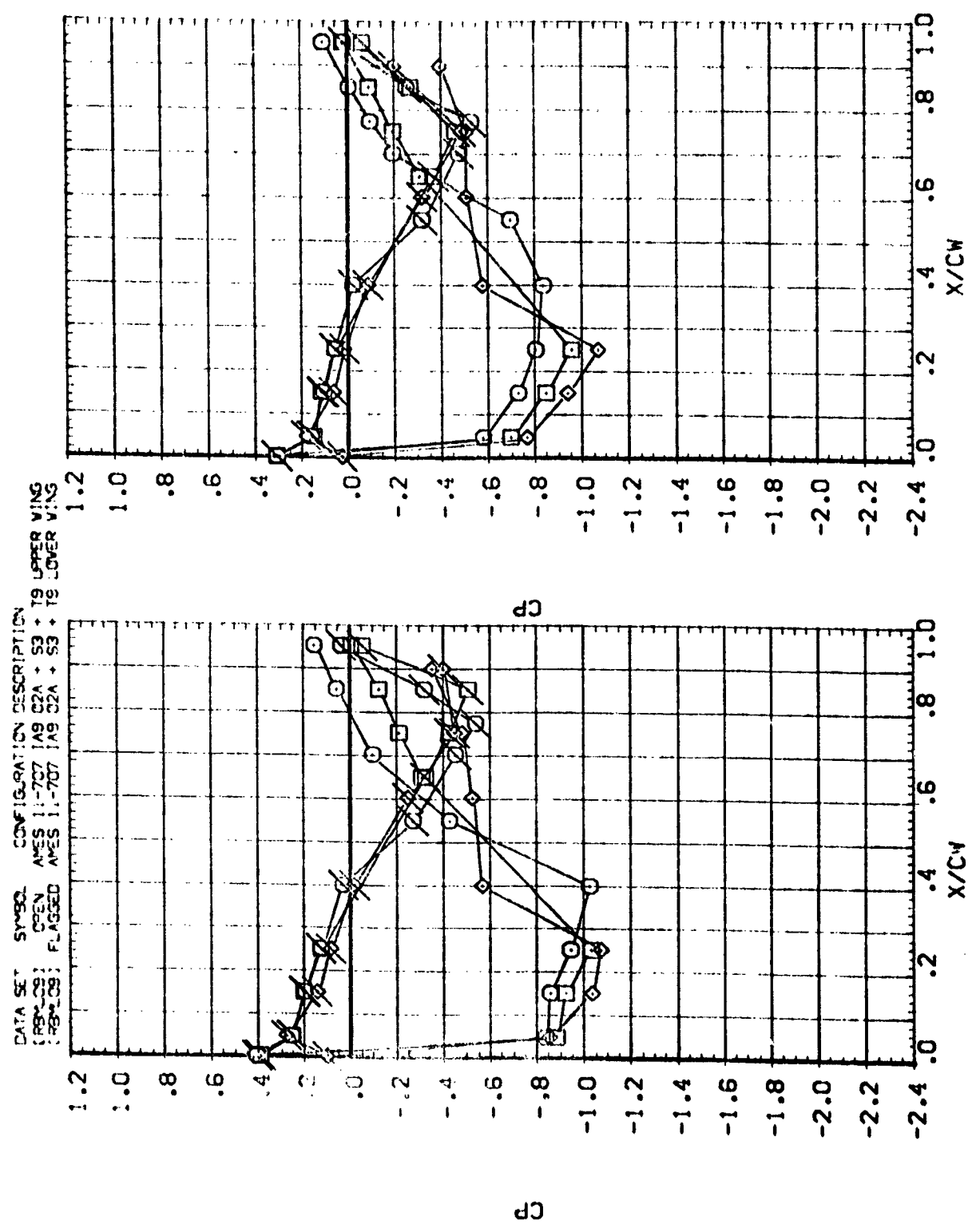


CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

==

SYMBOL V/BN BE-A⁺ WAC⁺
 .573 -4.080 .899
 .780 2.070
 .887

PARAMETRIC VALUES
 ALPHA⁺ 4.000 298.1 NC
 R-LOWER .000 ELEVEN
 R-UPPER .000



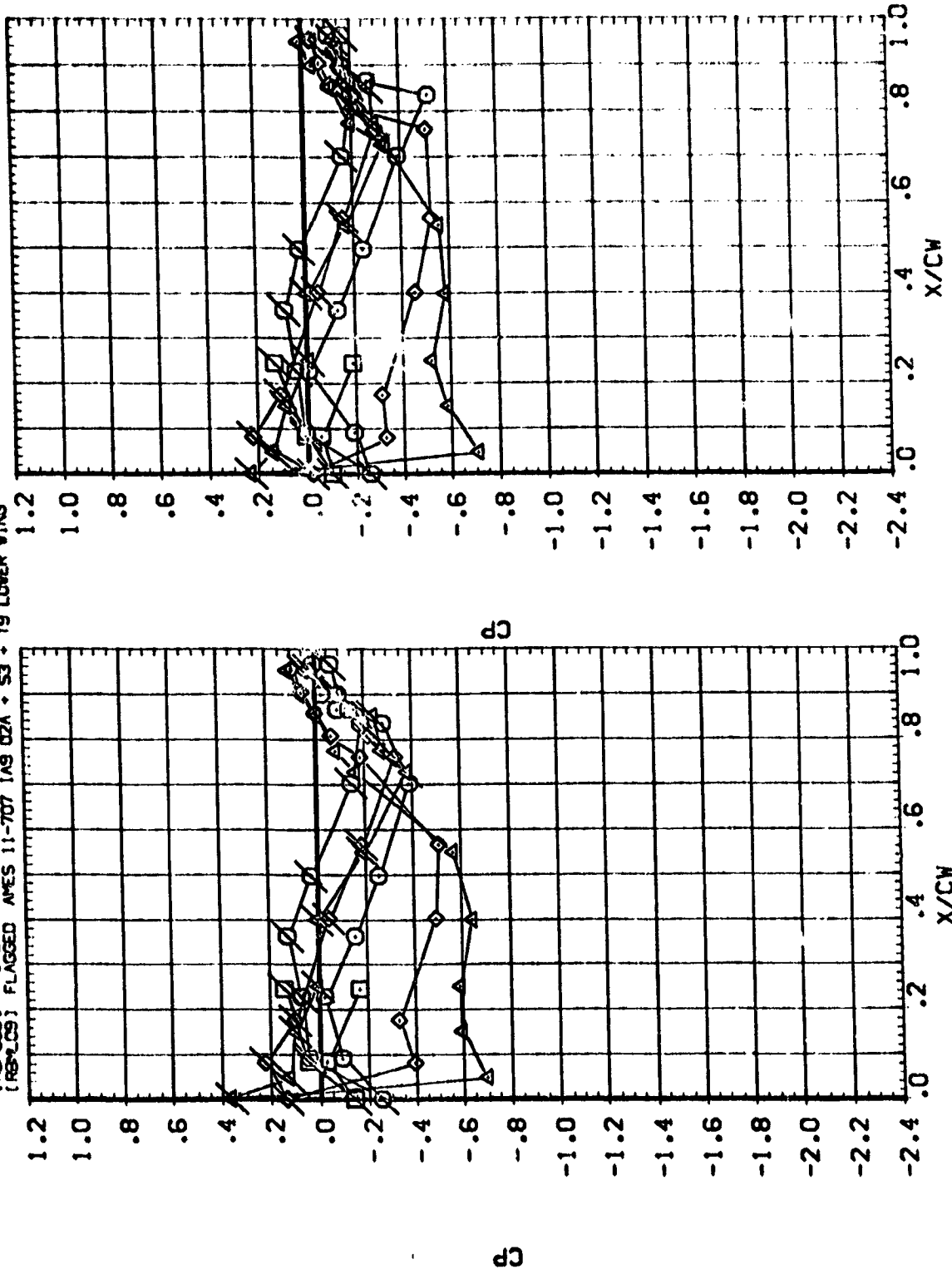
CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES



SYMBOL V/BN BETAT MACH
 ○ .299 4.13C .899
 □ .364 8.24C
 ◇ .427
 △ .534

PARAMETRIC VALUES
 ALPHA 4.000
 RUDDER .000
 RUDDER .000
 RUDDER .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RBM-109) OPEN AYES 11-707 1A9 02A + S3 + T9 UPPER WING
 (RBM-109) FLAGGED AYES 11-707 1A9 02A + S3 + T9 LOWER WING



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

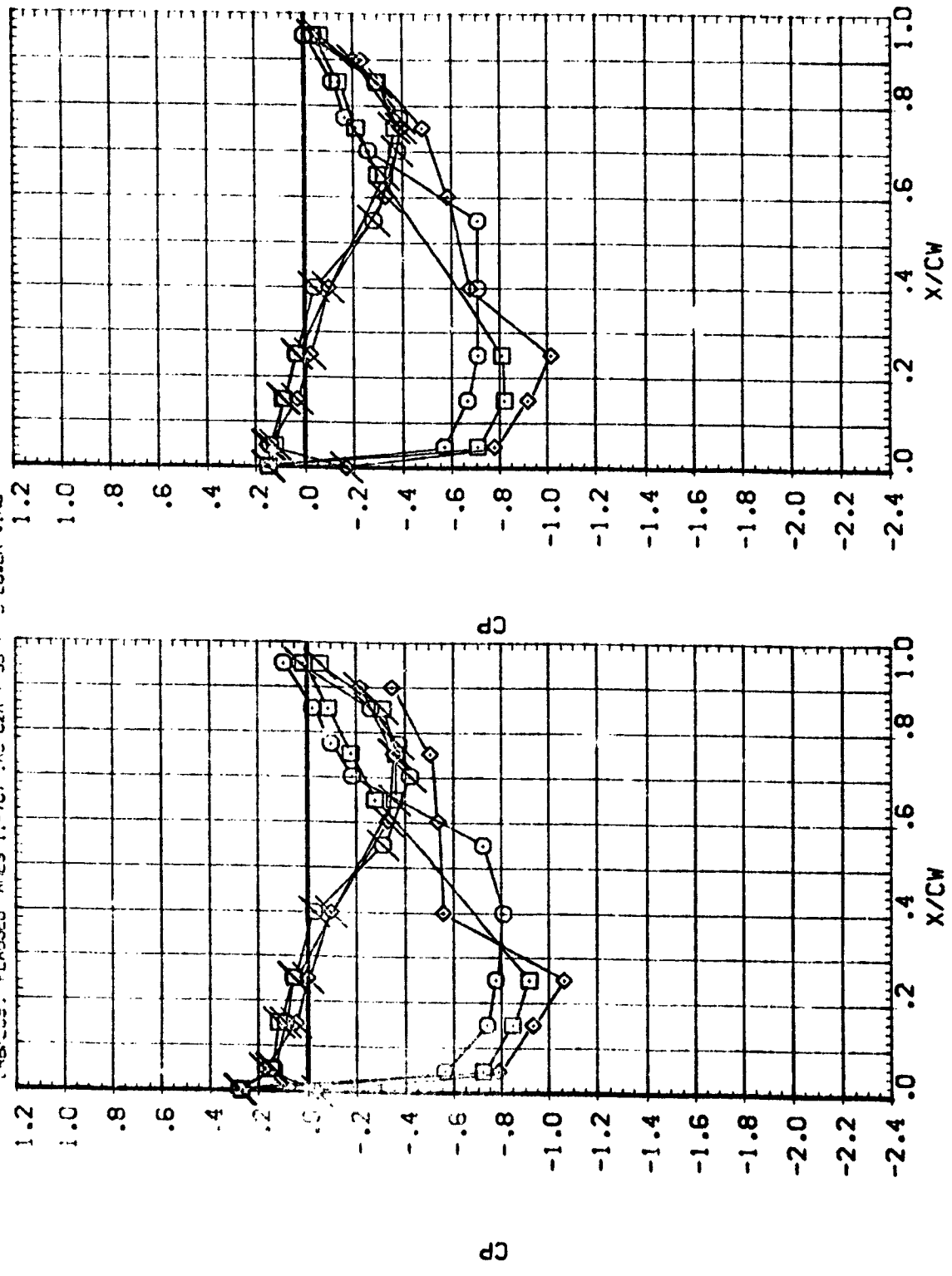
==

SYMBOL V/BV BETA⁺ MACH

573 4.130 .899
 .780 8.240
 .887

PARAMETRIC VALUES
 ALPHA⁺ 4.000 ORBITALC .500
 RUDDER .000 ELEVON .000
 RUDELR .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RB-09) OPEN AMES 11-707 AS C2A + S3 + 19 UPPER WING
 (RB-09) FLAGGED AMES 11-707 AS C2A + S3 + 19 LOWER WING



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

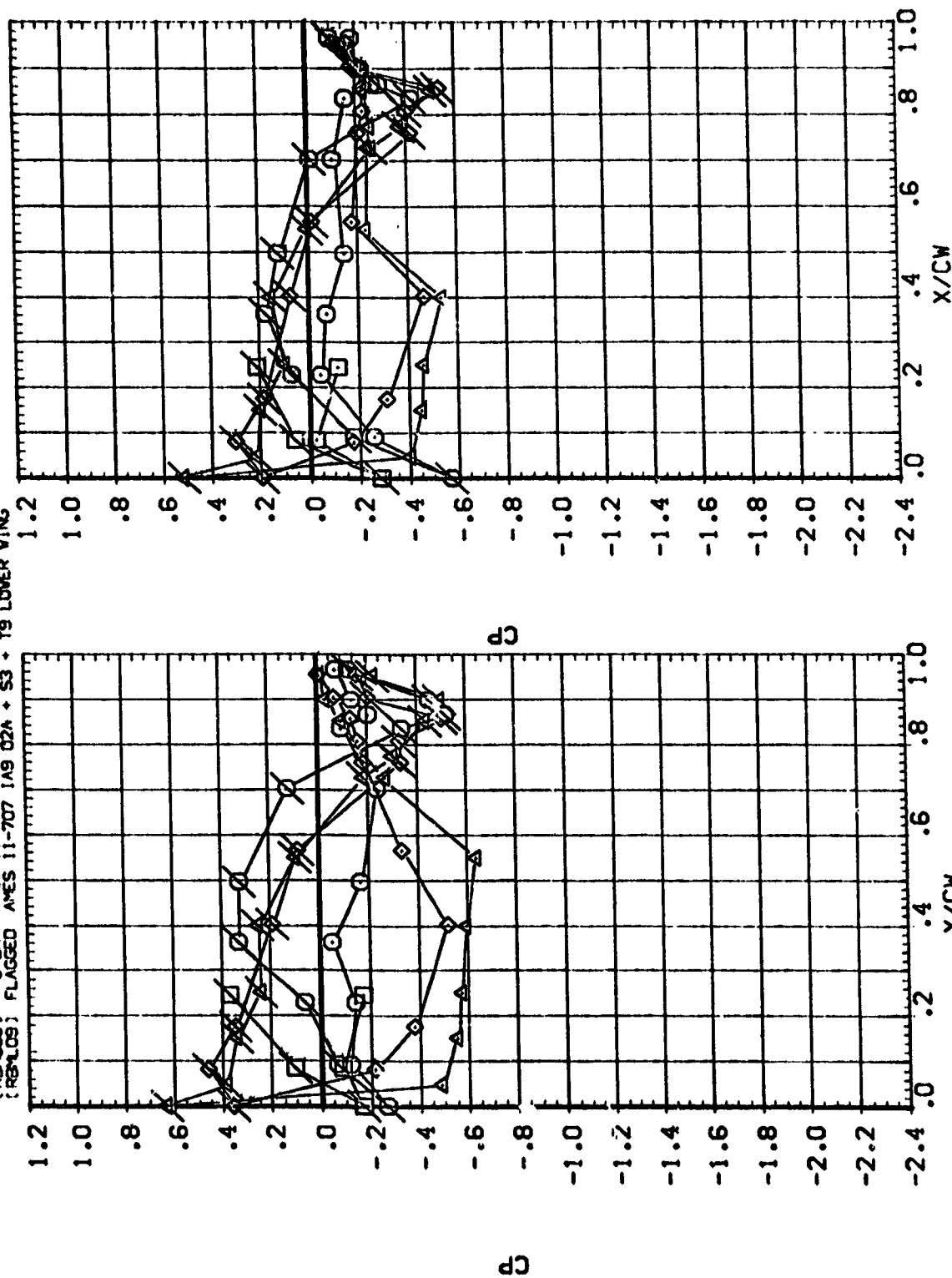
PARAMETRIC VALUES

ALPHAT	4.000	DRBINC	.500
RUDGER	.000	ELEVON	.000
RUDFLR	.000		

DATA SET SYMBOL CONFIGURATION DESCRIPTION

Y/BV	BETAT	MACH
.299	-4.080	1.103
.364	2.080	
.427		
.534		

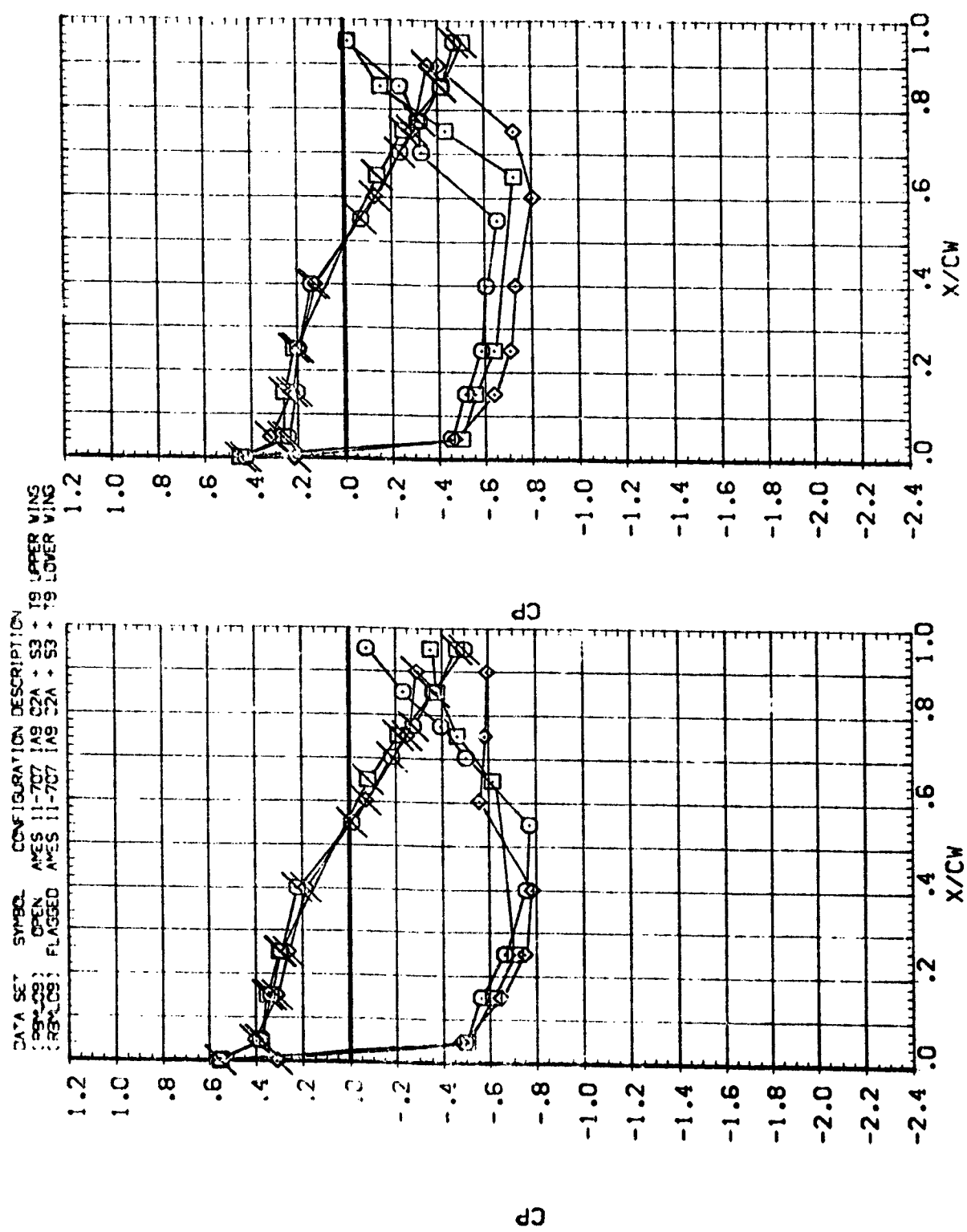
AMES 11-707 1A9 02A + S3 + T9 UPPER WING
AMES 11-707 1A9 02A + S3 + T9 LOWER WING



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

SYMBOL: γ/β BETAT: MACH: 1.103
 .673
 .78C
 .887

PARAMETRIC VALUES
 ALPHAT: 4.000
 RUDDER: .000
 RUDFLP: .000
 CDBINC: .500
 ELEVON: .000



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

SYMBOL
○ □ ◇ △

V/BN
.299
.364
.427
.534

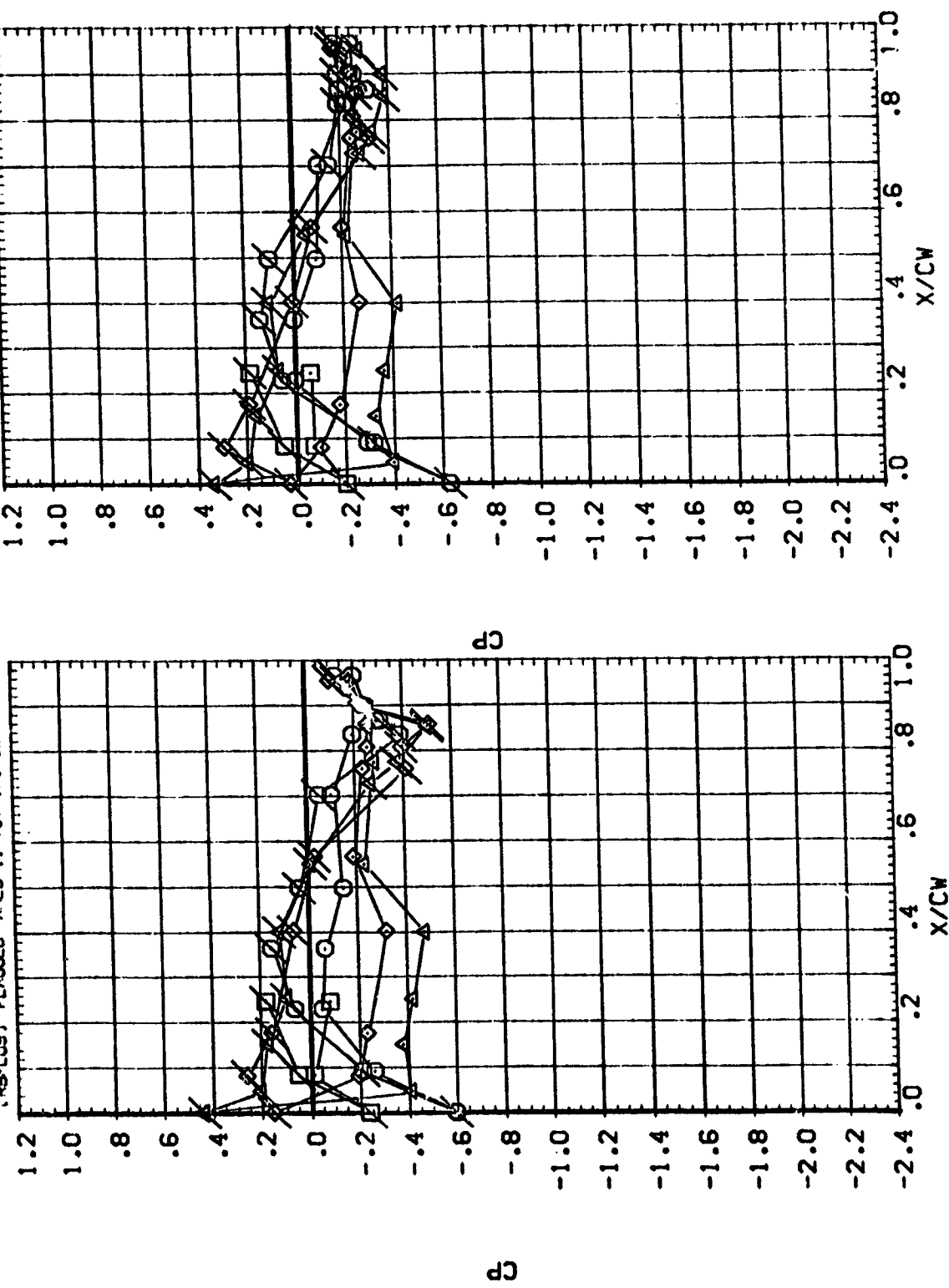
BETA°
4.140
8.260

MACH
1.103

ALPHAT
R/DOR
R/DOLR

PARAMETRIC VALUES
4.000 ORBINC
.000 ELEVOR
.000

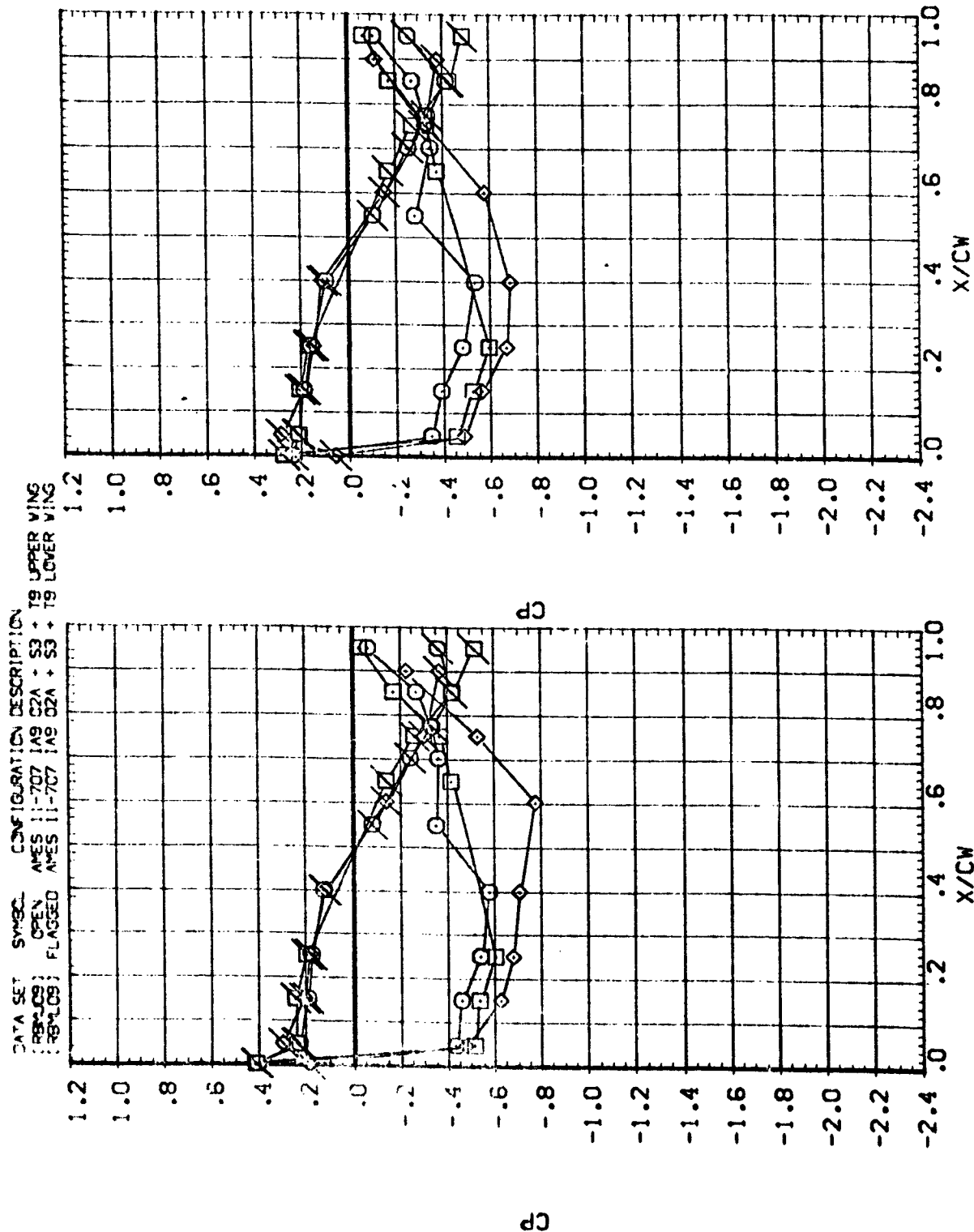
DATA SET SYMBOL CONFIGURATION DESCRIPTION
(RBPLOS) OPEN ASES 11-707 1AS 02A + S3 + T9 UPPER WING
(RBPLOS) FLAGGED ASES 11-707 1AS 02A + S3 + T9 LOWER WING



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES



SYMBOL Y/BU BETA² MACH PARAMETRIC VALUES
ALPHA² ORBINC
RODER ELEVEN
RUDFLR .000



PARAMETRIC VALUES

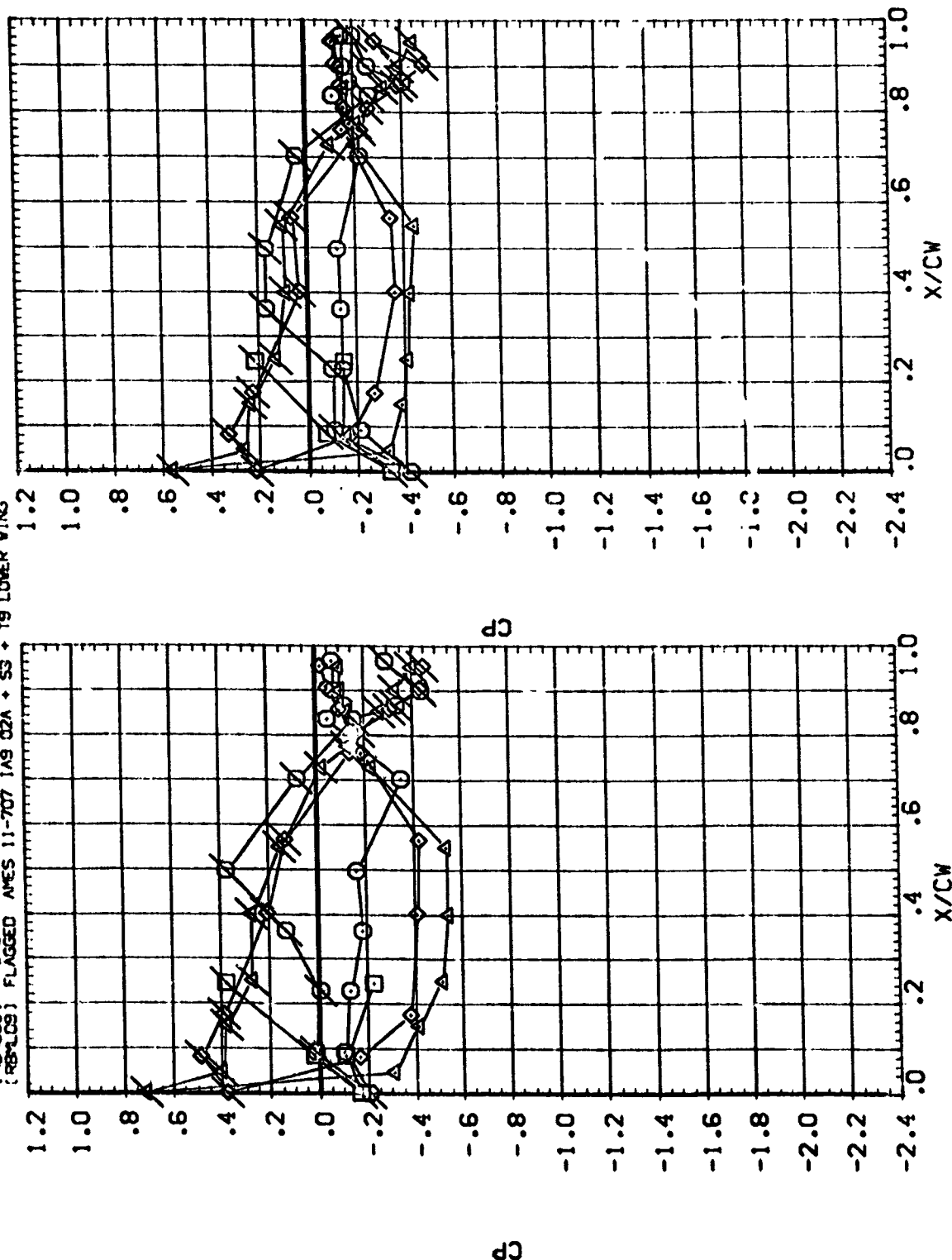
ALPHAT	4.000	ORBITIC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

SYMBOL

Y/BN	BETA	MACH
.299	-4.060	1.246
.364	2.070	
.427		
.534		

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RBL08)	OPEN	AWES 11-707	AS 02A + S3 + T9	UPPER WING
(RBL08)	FLAGGED	AWES 11-707	AS 02A + S3 + T9	LOWER WING



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES



SYNOPSIS
1.0110

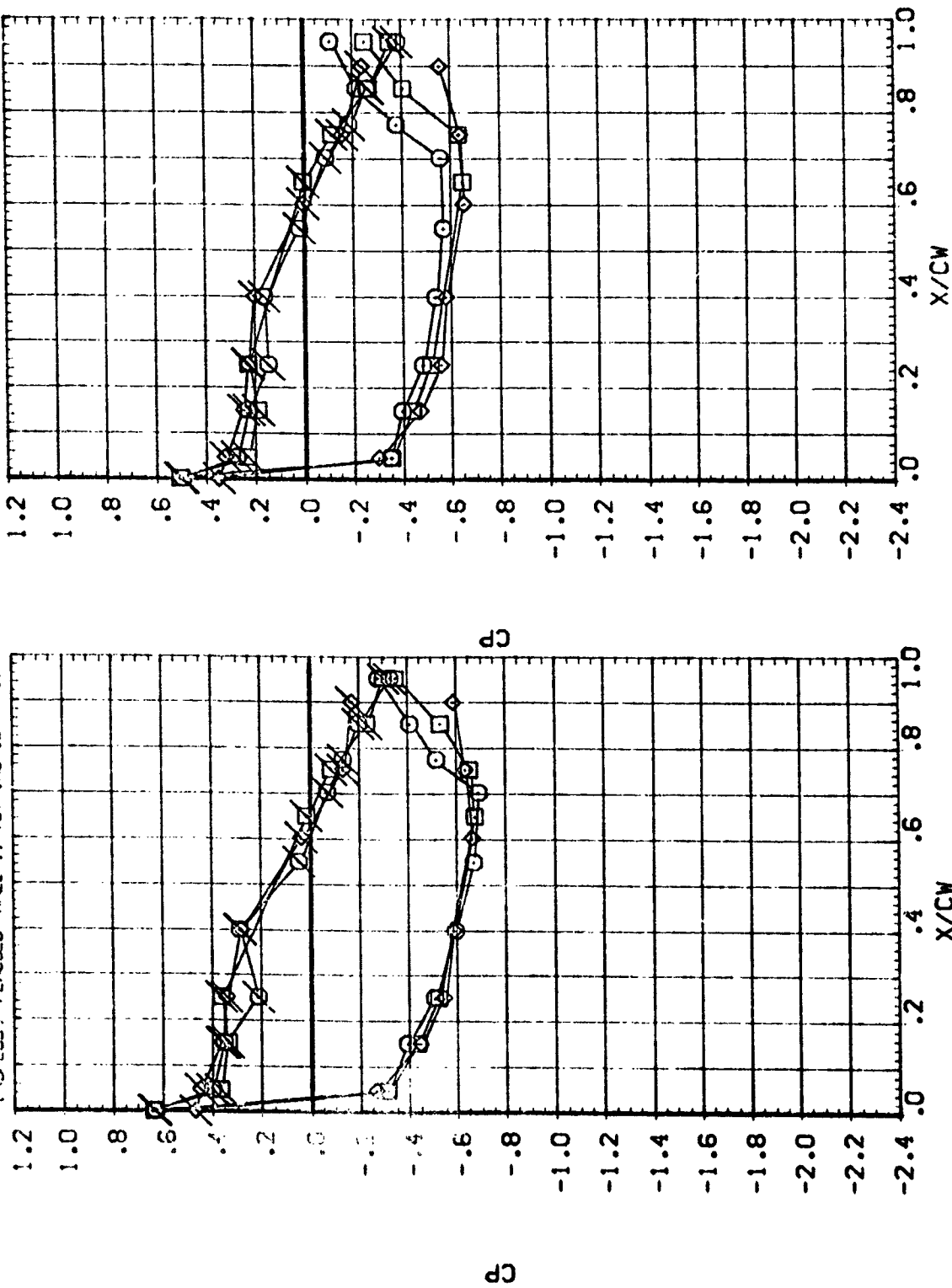
V/BV
.673
.78C
.89"

BETA
-4.060
2.070

MACH
1.246

PARAMETRIC VALUES
ALPHAT 4.000 CPBINC .500
RUDER .000 ELEVON .000
RUDFLR .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
[RB-UC9] OPEN ANES 11-707 [A9 02A + S3 + T9 UPPER VING
[RB-UC9] FLAGGED ANES 11-707 [A9 02A + S3 + T9 LOWER VING



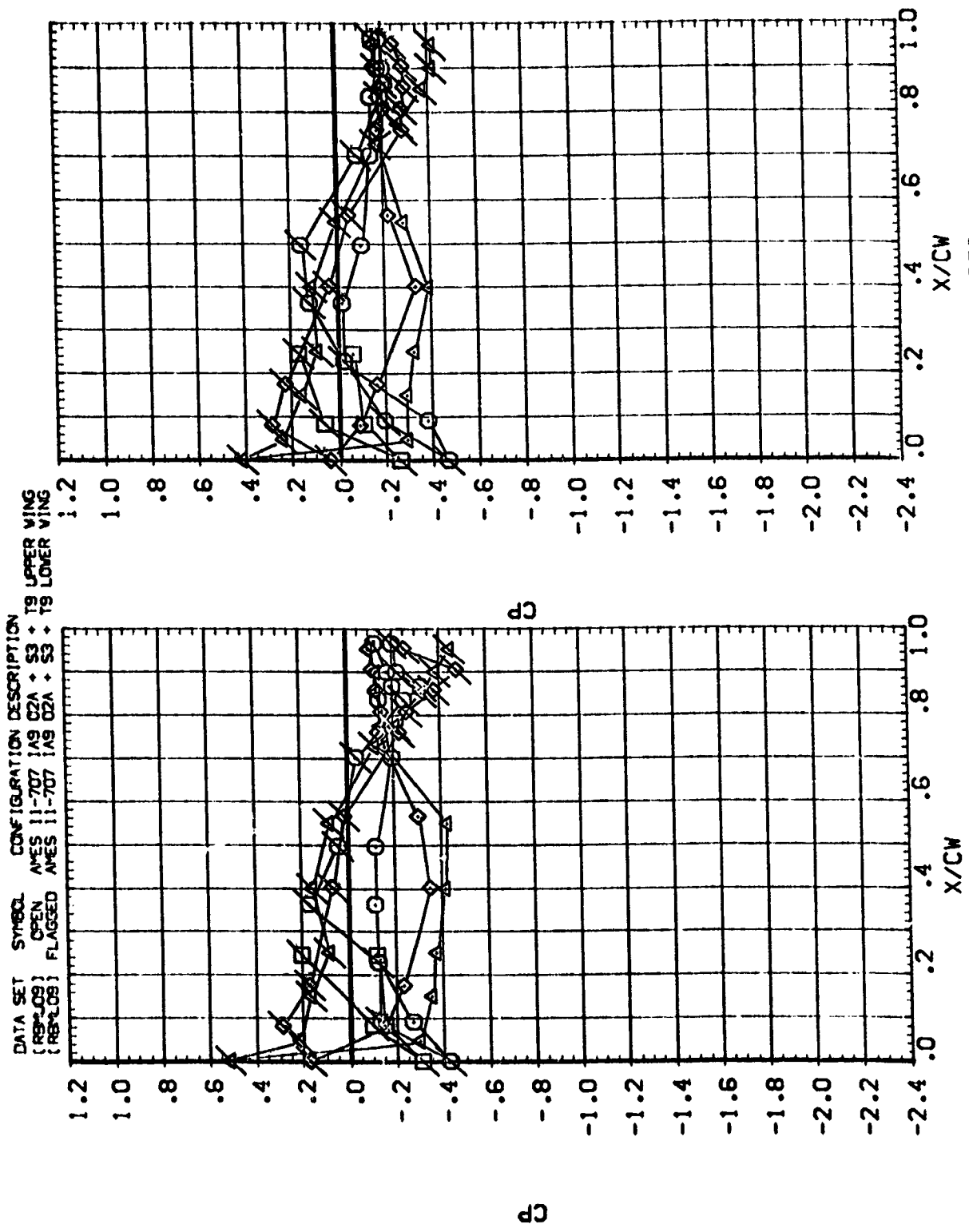
CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

PARAMETRIC VALUES

ALPHAT	4.000	ORBITC	.500
RUDDER	.000	ELEVON	.000
RUOFLR	.000		

SYMBOL Y/BV BETAT MACH

○	.299	4.110	1.246
□	.364	8.210	
△	.427		
◇	.534		



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

PARAMETRIC VALUES

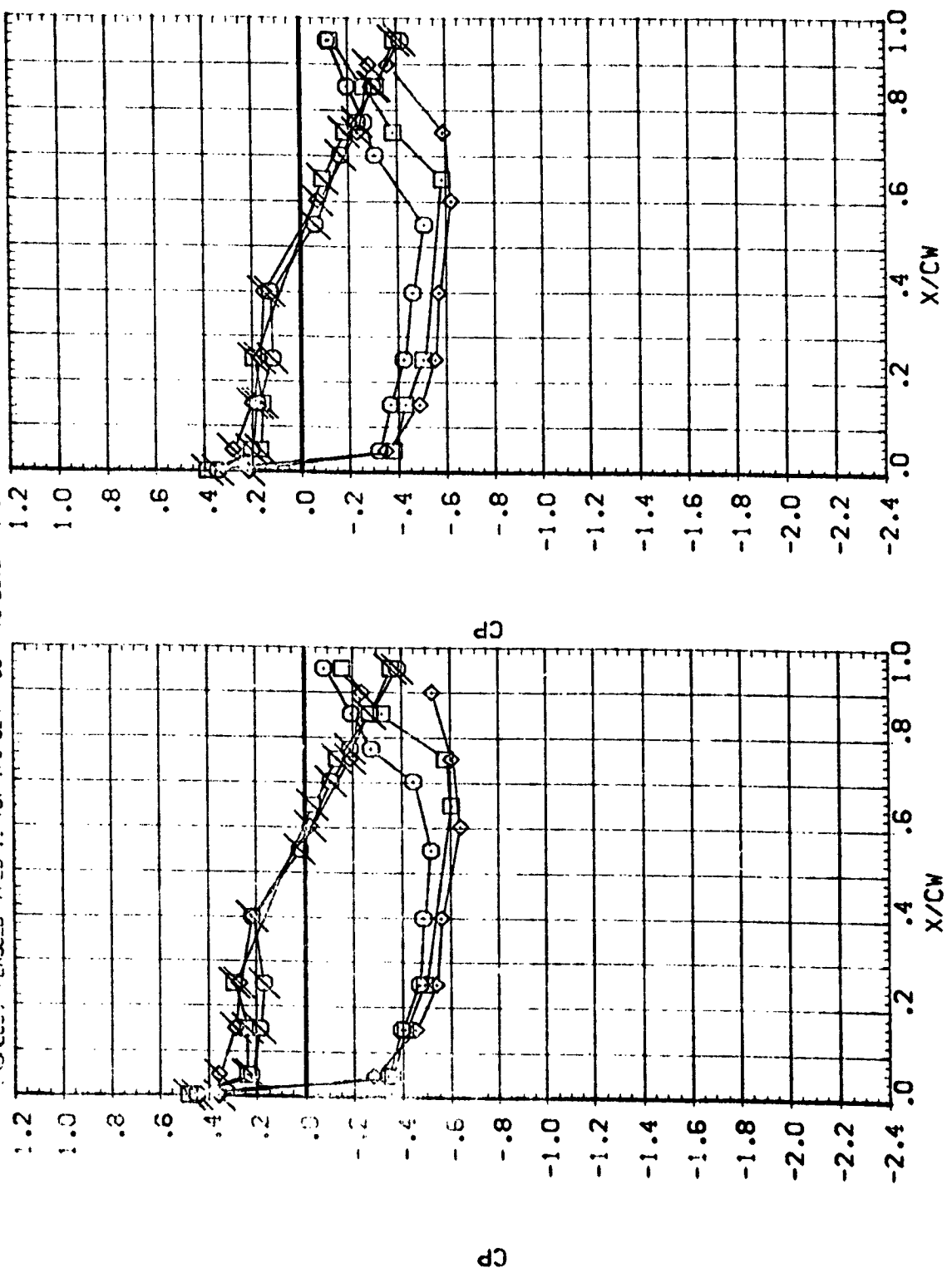
ALPHA	4.000	CDBINC	.500
RUDDER	.000	ELEVEN	.000
RUDFLR	.000		

SYMBOLS

1/34	BETA	MACH
.673	4.110	1.246
.790	9.210	
.887		

DATA SET SYMBOLS CONFIGURATION DESCRIPTION

(38108)	OPEN	AVES 11-707 1A8 02A + S3 + T9 UPPER WING
(38109)	FLAGGED	AVES 11-707 1A8 02A + S3 + T9 LOWER WING



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

PARAMETRIC VALUES

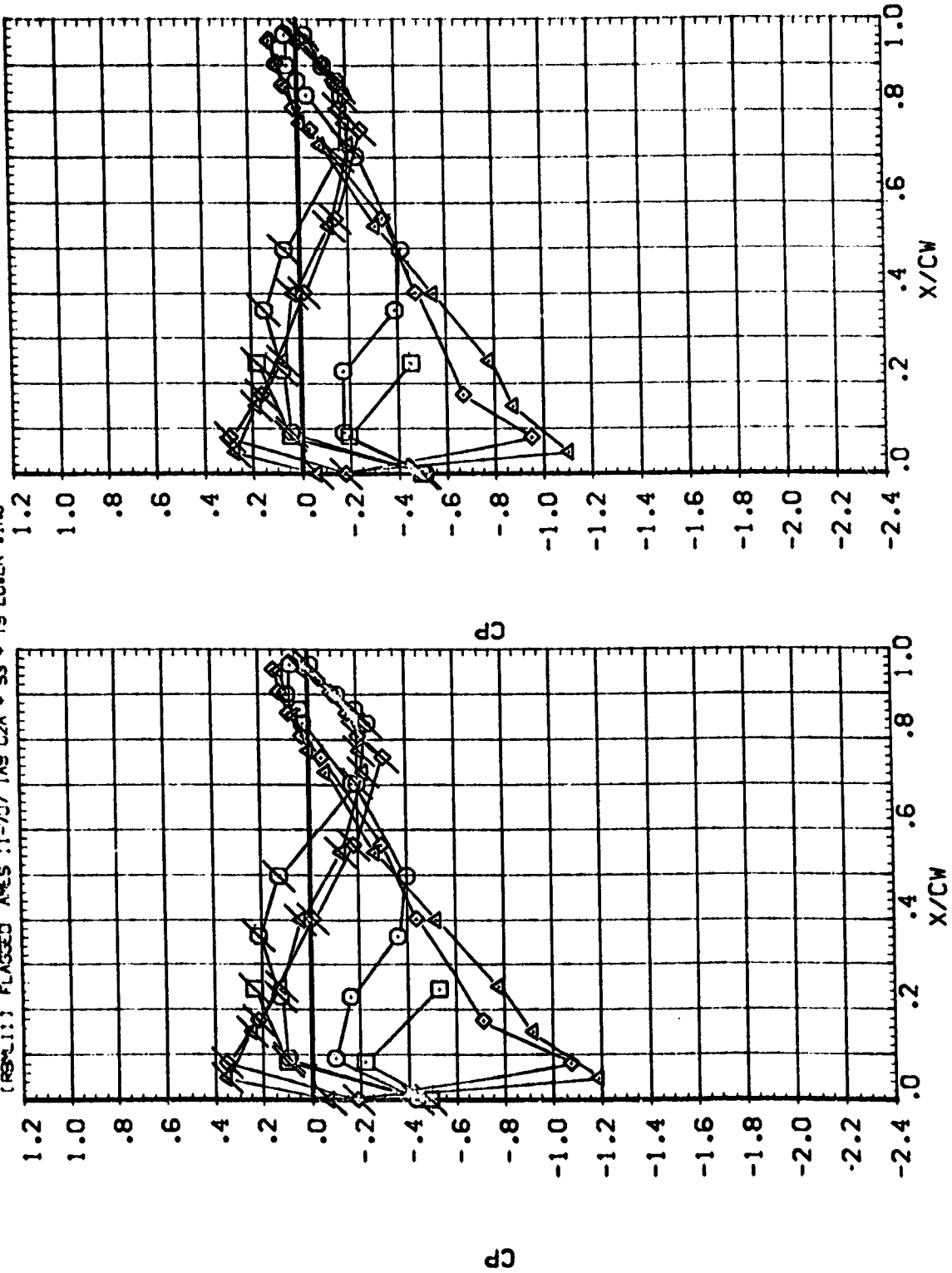
ALPHAT	8.000	ORBNIC	.500
RUDER	.000	ELEVON	.000
RUDFLR	.000		

SYMBOL

Y/SN	BETA	MACH
.299	-4.01C	.599
.364	.070	
.427		
.534		

DATA SET: SYMBOL CONFIGURATION DESCRIPTION

(RBN11)	OPEN	ANES 11-707	AS 02A + S3 + T9	UPPER VING
(RBN11)	FLAGGED	ANES 11-707	AS 02A + S3 + T9	LOWER VING



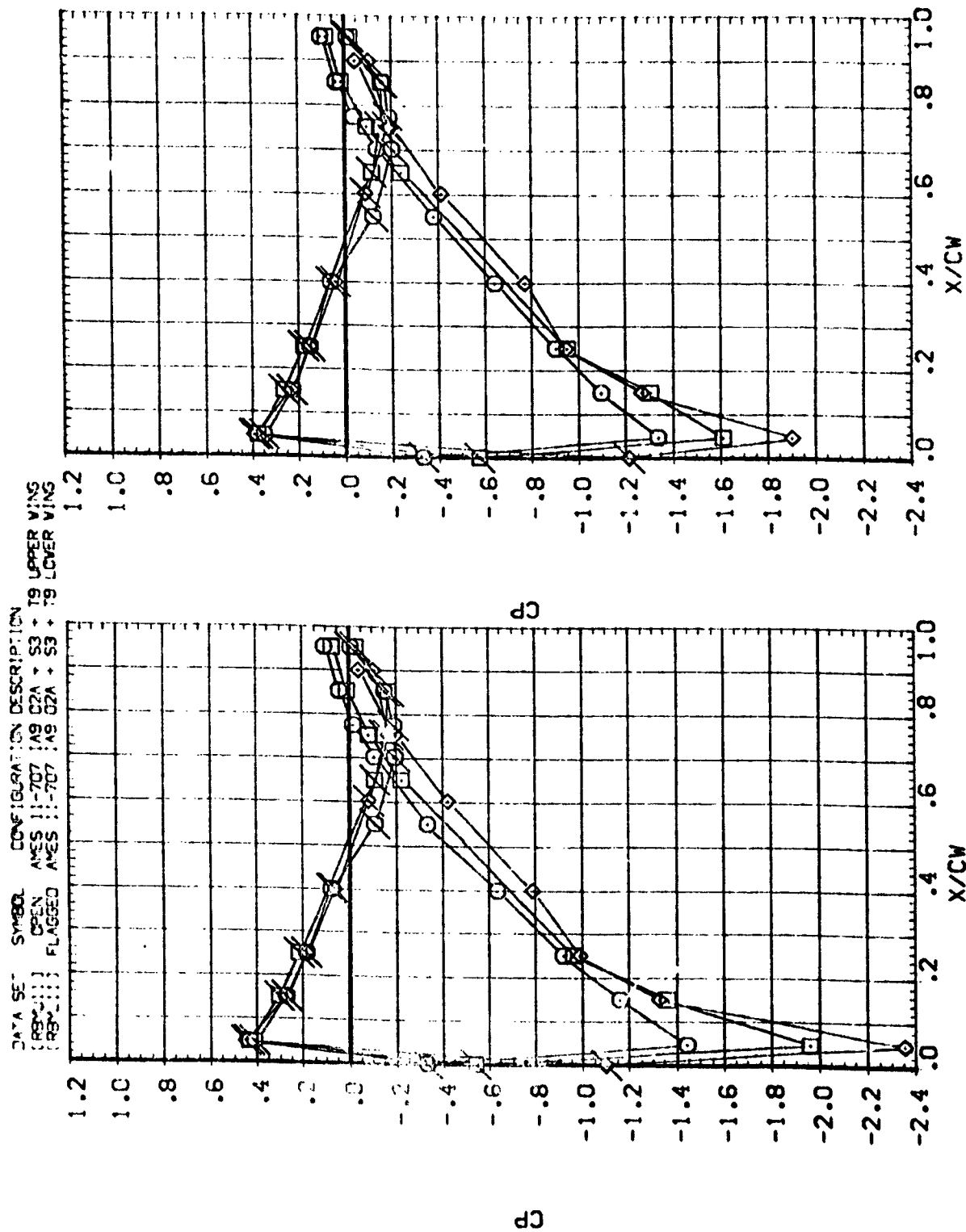
CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

PARAMETRIC VALUES

ALPHA	8.000	DRBINC	.500
RJDDR	.000	ELEVEN	.000
RJDFLR	.000		

SYMBOL

Y/3	BETA	WACH
.673	-4.010	.599
.780	.020	
.887		



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

PARAMETRIC VALUES

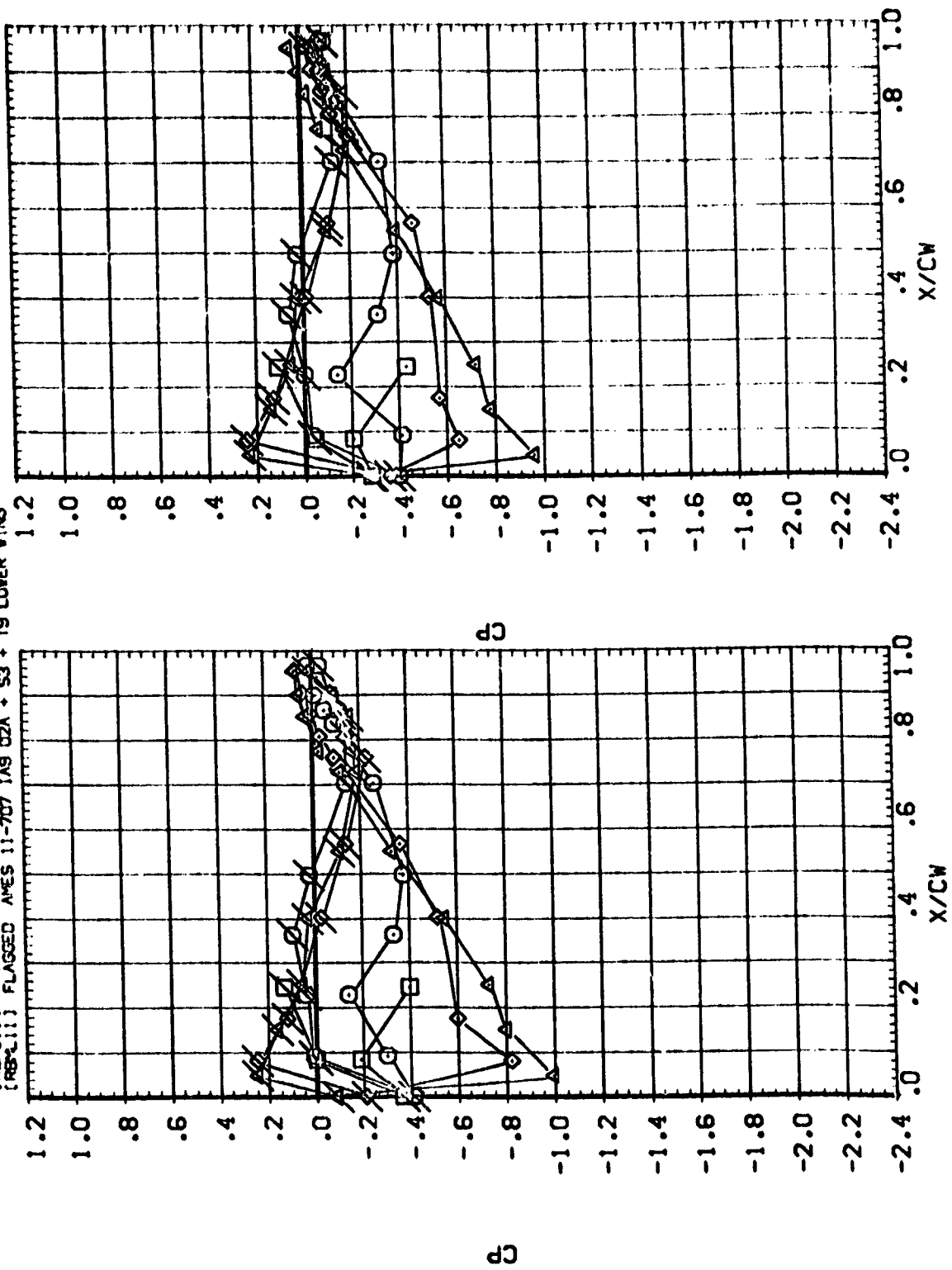
ALPHAT	8.000	098:NC	.500
RJDOER	.000	ELEVON	.000
RJDFLR	.000		

SYMBOL V/BW BETAT MACH

○	.299	4.100	.599
□	.364	8.190	
◇	.427		
△	.534		

DATA SET SYMBOL CONFIGURATION DESCRIPTION

[REPL111]	OPEN	AMES 11-707 [A9 02A + S3 + T9	UPPER WING
[REPL111]	FLAGGED	AMES 11-707 [A9 02A + S3 + T9	LOWER WING



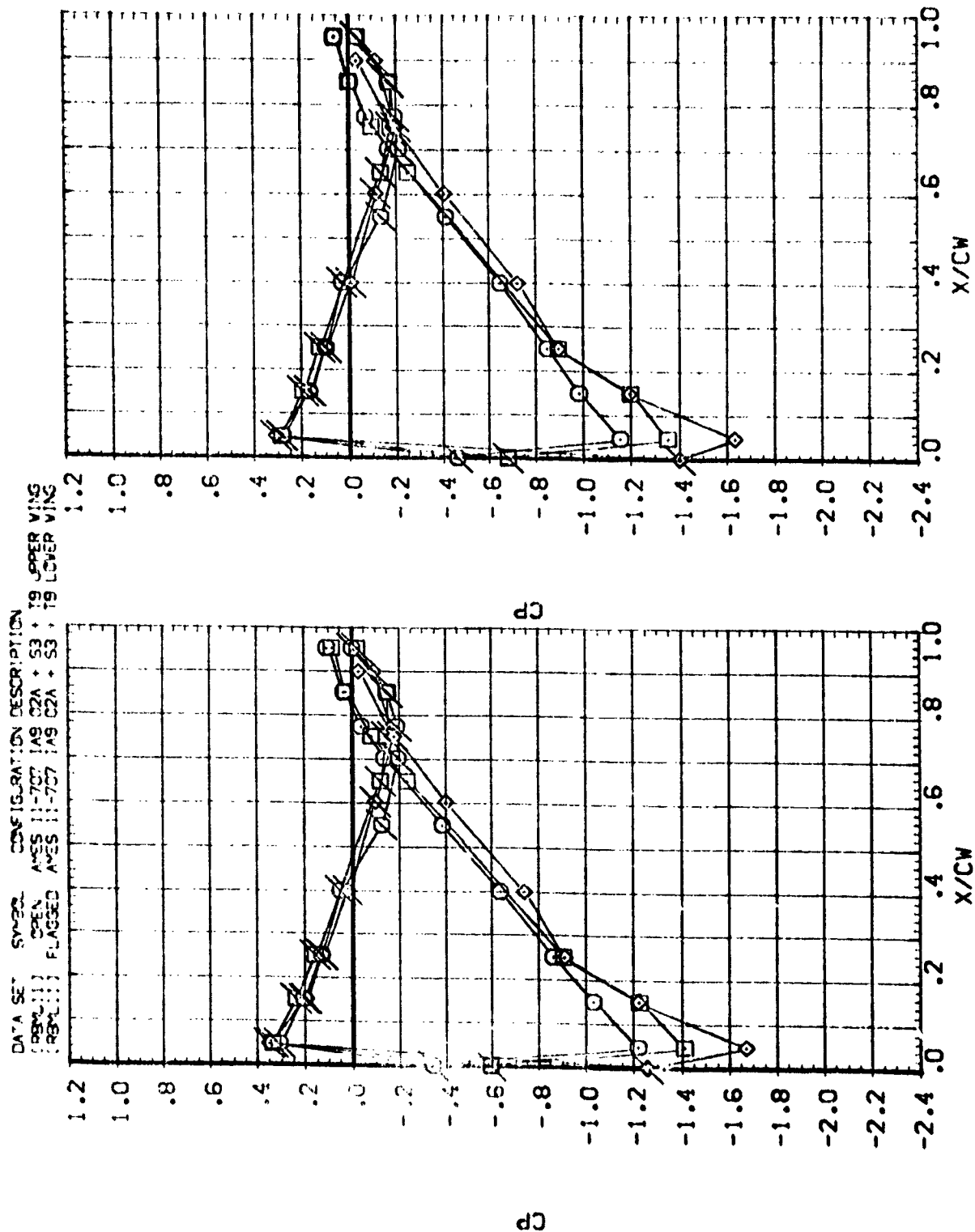
CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

PARAMETRIC VALUES

ALPHA	8.000	DEGREE	.500
RUDDER	.000	ELEVEN	.000
RUOFLR	.000		

DATA SET SYMBOL CONFIGURATION DESCRIPTION

SYMBOL	SYMBOL	CONFIGURATION DESCRIPTION
01	01	BASE CASE
02	02	BASE CASE + 19 UPPER WING
03	03	BASE CASE + 19 LOWER WING



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES



SYMBOL Y/BV .298
 .364
 .427
 .534

BEAT -4.060
 2.080

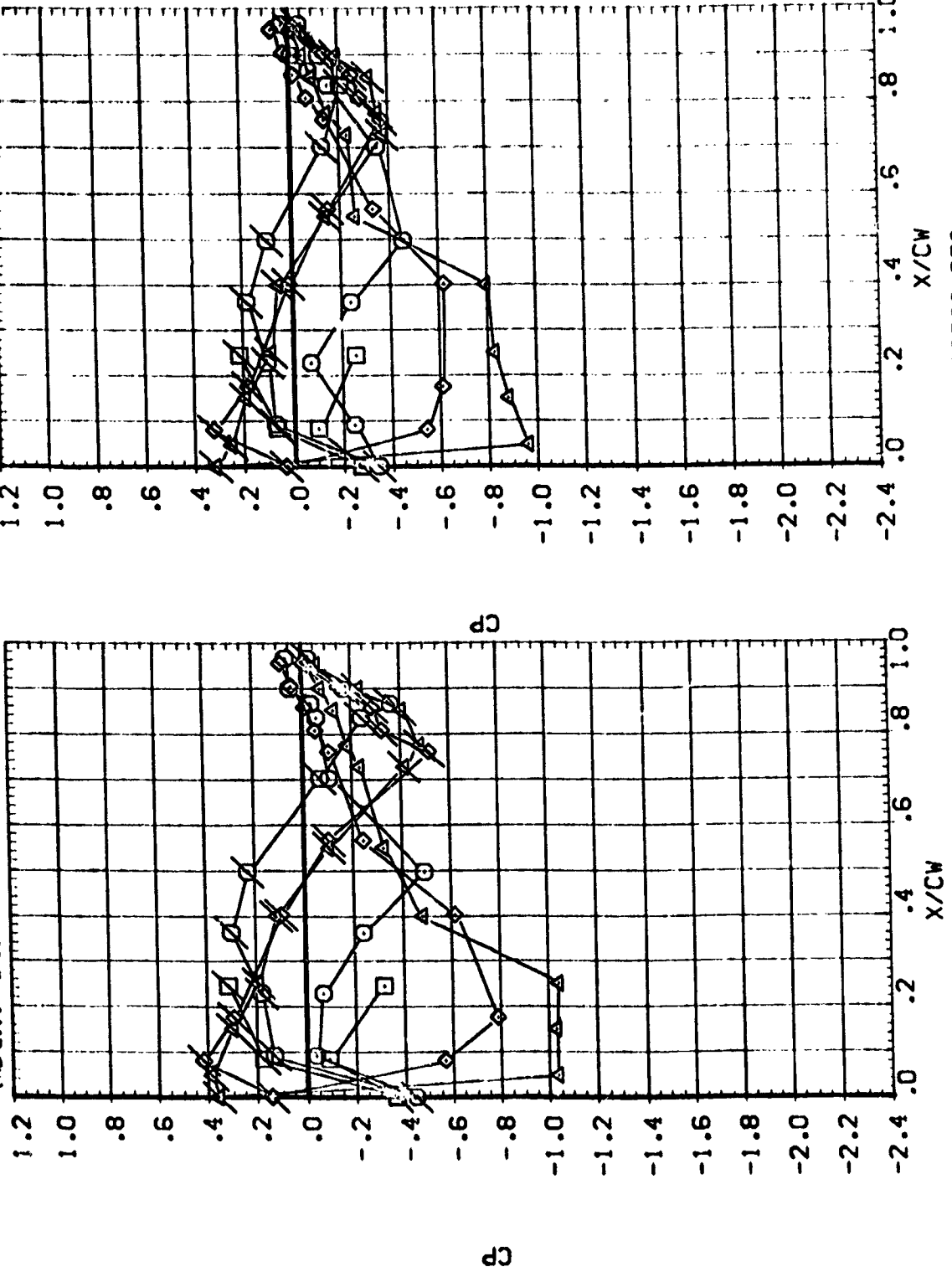
MACH .900

PARAMETRIC VALUES
 ALPHA 8.000
 RUDDER .000
 RUDDER ELEVON .000

.500
 .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION

RB-111 OPEN AMES 11-707 1A9 02A + S3 + TS UPPER WING
 RB-111 FLANGED AMES 11-707 1A9 02A + S3 + TS LOWER WING

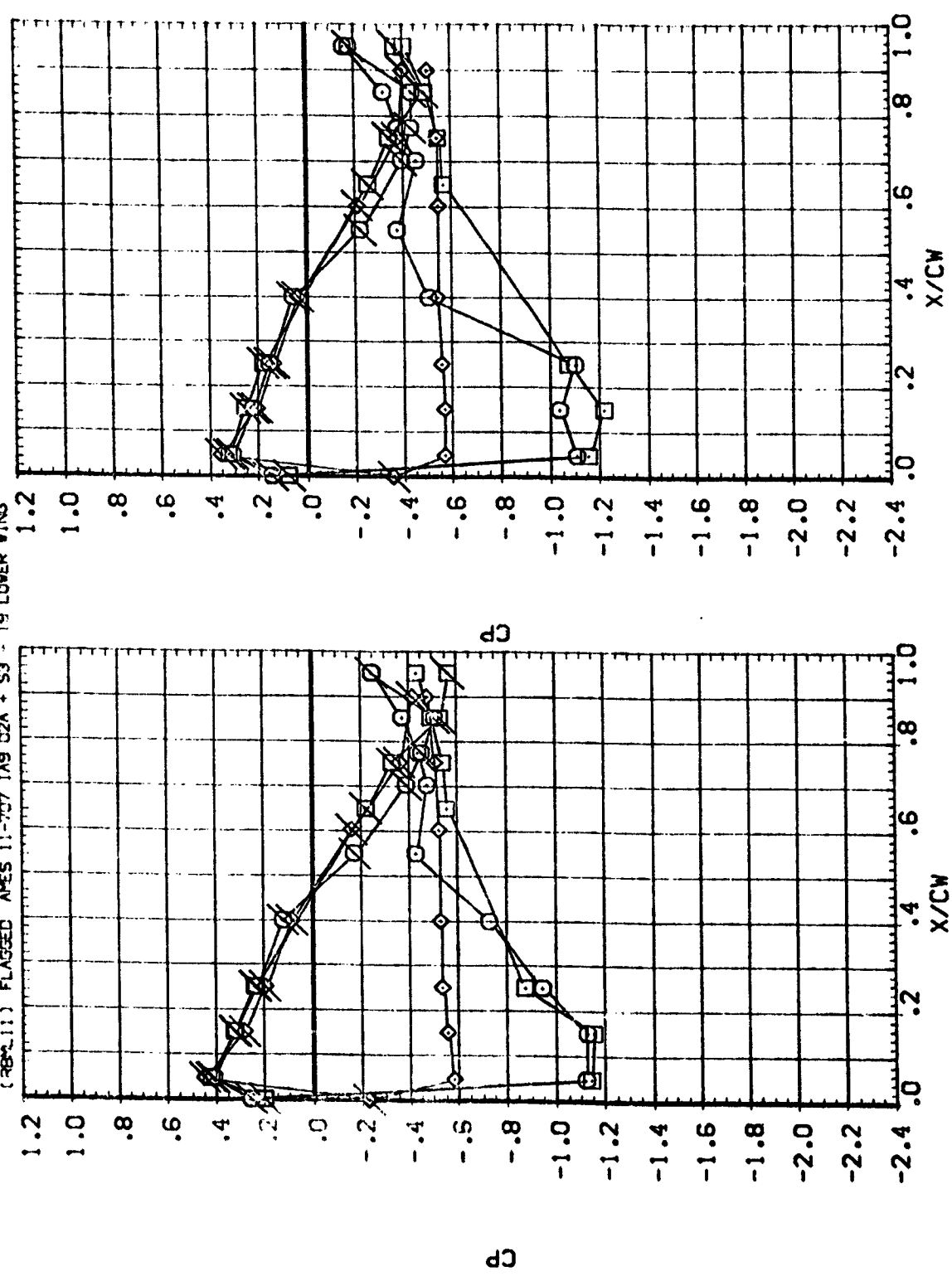


CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

PARAMETRIC VALUES
 ALPHA 8.000
 RUDER .000
 RUDFLR .000

SYMBOL V/SN BE / AT MACH
 O 1 .673 -4.060 .900
 O 2 .780 2.080
 O 3 .887

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 [RB-1] OPEN ASES 11-707 [A9 02A + S3 + T9 UPPER WING
 [RB-2] FLAGGED ASES 11-707 [A9 02A + S3 - T9 LOWER WING



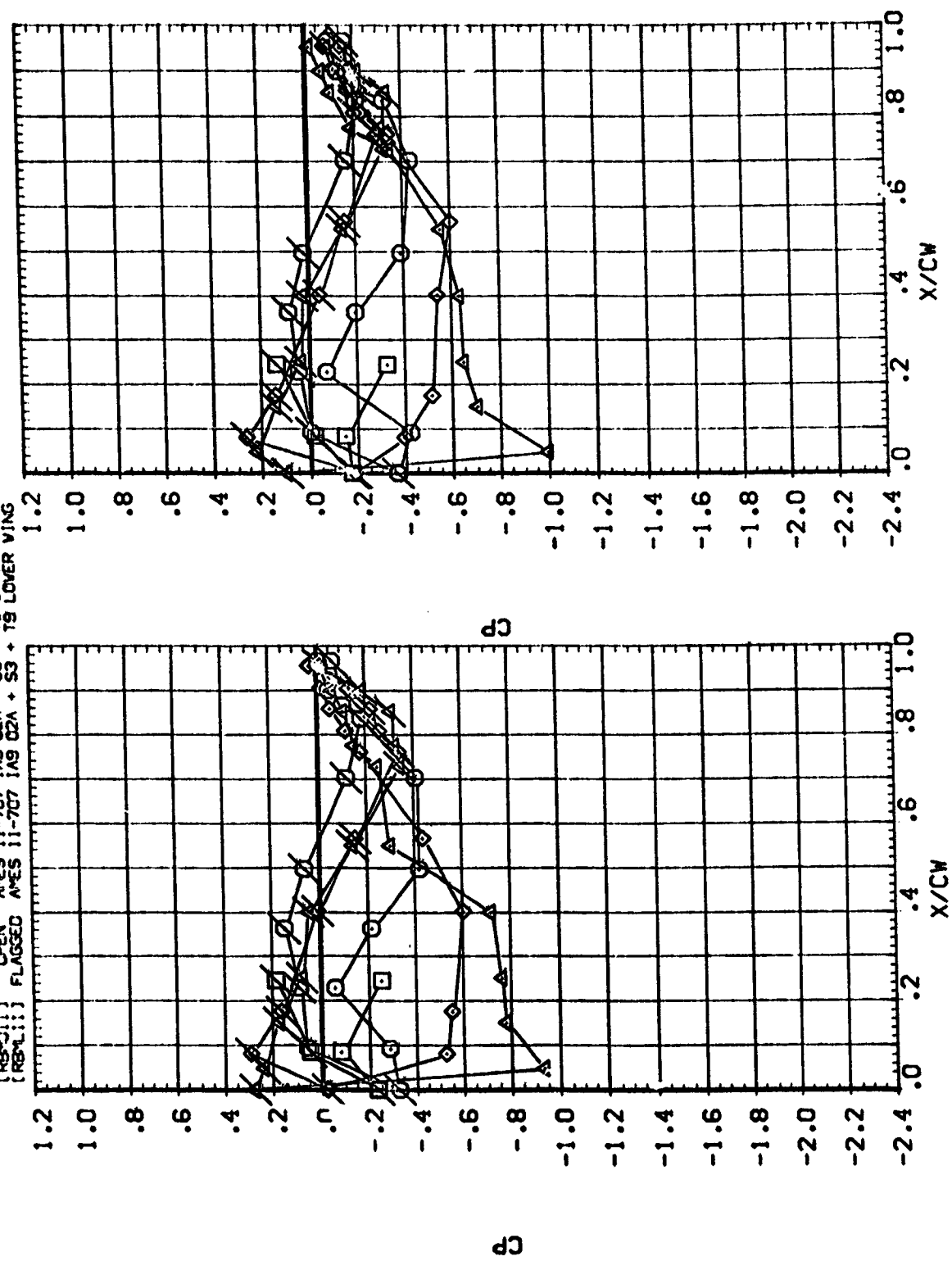
CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

SYMBOL V/BV BETAT MACH

.299 4.150 .900
 .364 8.280
 .427
 .534

PARAMETRIC VALUES
 ALPHAT 8.000 ORBINC .500
 RUDDER .000 ELEVON .000
 RUOFLR .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RB-111) OPEN AMES 11-707 1A9 02A + S3 + T9 UPPER WING
 (RB-111) FLAGGED AMES 11-707 1A9 02A + S3 + T9 LOWER WING



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

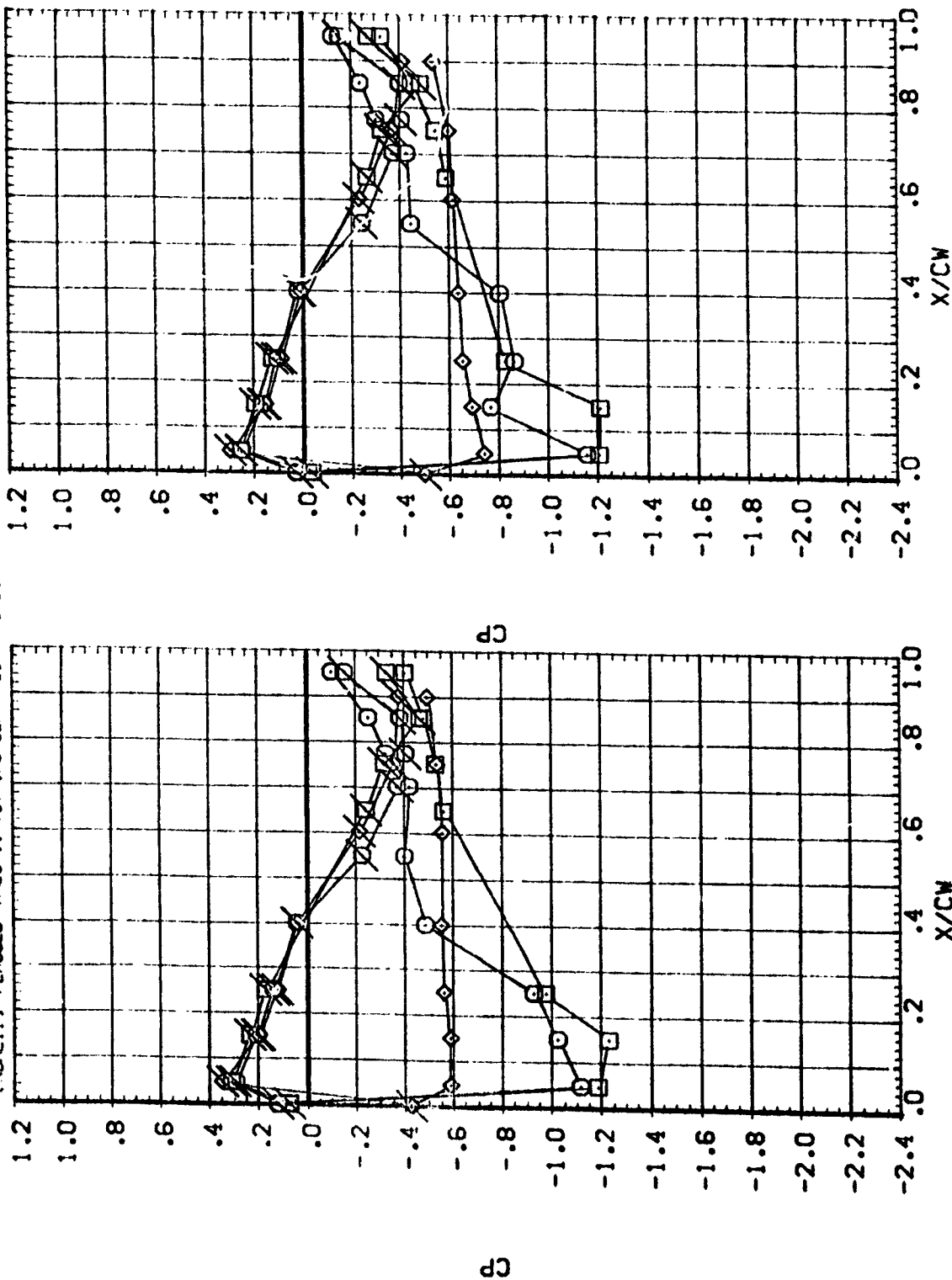
==

SYMBOL V/BW .673
 .76C
 .887

BETAT 4.15C
 8.28C

PARAMETRIC VALUES
 ALPHAT 8.000
 RUDDER .000
 ELEVON .000
 .500
 .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RBW) OPEN AMES 11-707 (A9 C2A + S3 + T9 UPPER VING
 (RBW) FLAGGED AMES 11-707 (A9 C2A + S3 + T9 LOWER VING



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES



SYMBOL
○ □ ◇ △

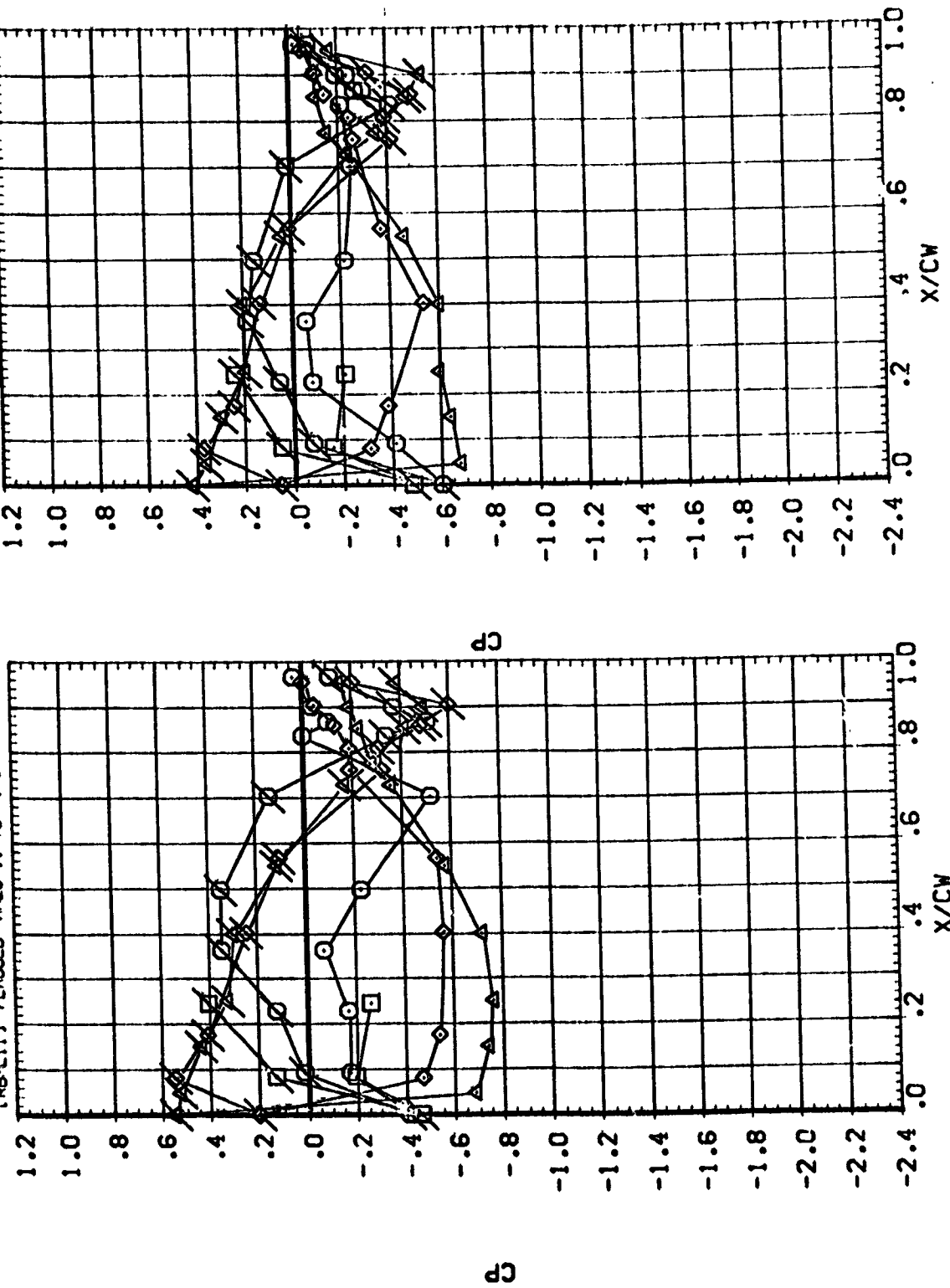
Y/BN
.799
.364
.427
.534

BETAT
-4.070
2.090

MACH
1.103

PARAMETRIC VALUES
ALPHAT 8.000
RUDER .000
RUDLR .000
ORBITC .500
ELEVON .000

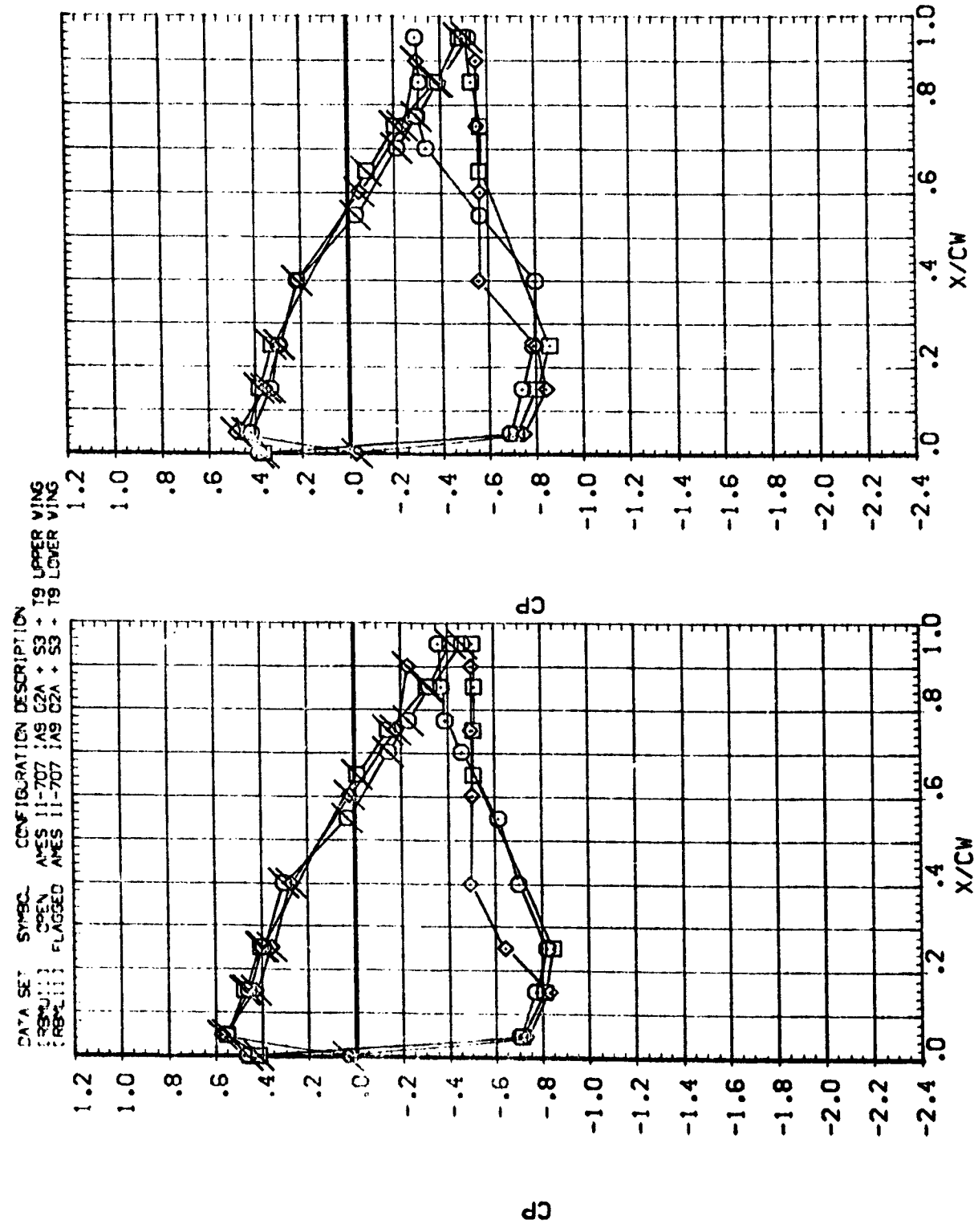
DATA SET SYMBOL CONFIGURATION DESCRIPTION
[REPL] OPEN ANES 11-707 1A9 02A + S3 + T9 UPPER WING
[REPL] FLAGGED ANES 11-707 1A9 02A + S3 + T9 LOWER WING



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

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SYMBOL γ/β BETA² MACH
 .573 -4.27 1.103
 .780 2.091
 .897
 PARAMETRIC VALUES
 ALPHA 8.000 ORBINC .500
 R_LODR .000 ELEVON .000
 R_OFLR .000



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

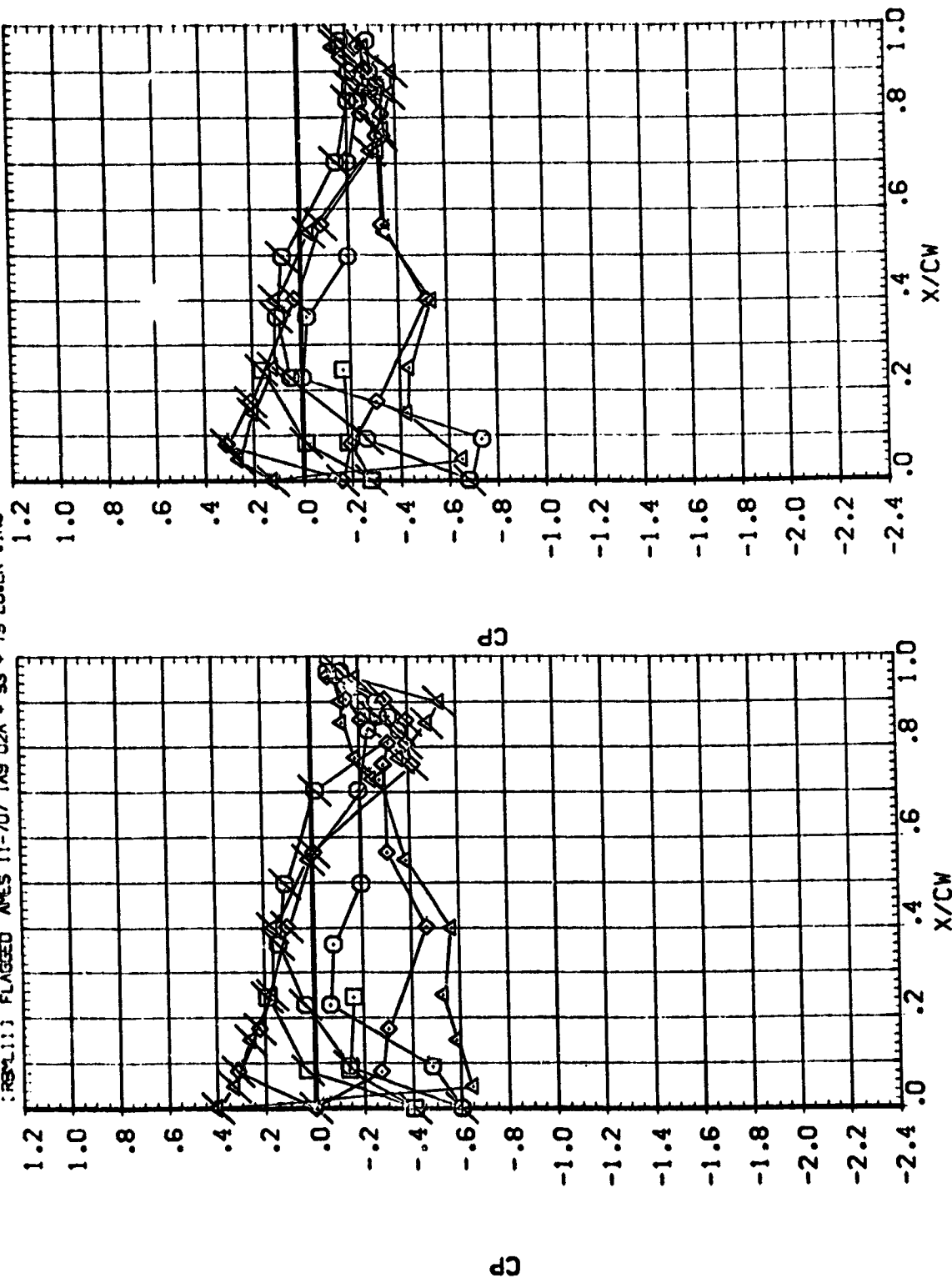
SYSC. Y/BV .288
 .364
 .427
 .534

BETAT 4.150
 8.300

MACH 1.103

PARAMETRIC VALUES
 ALPHAT 8.000
 RUDDER .000
 RCLLR .000
 ORBINC .500
 ELEVON .000

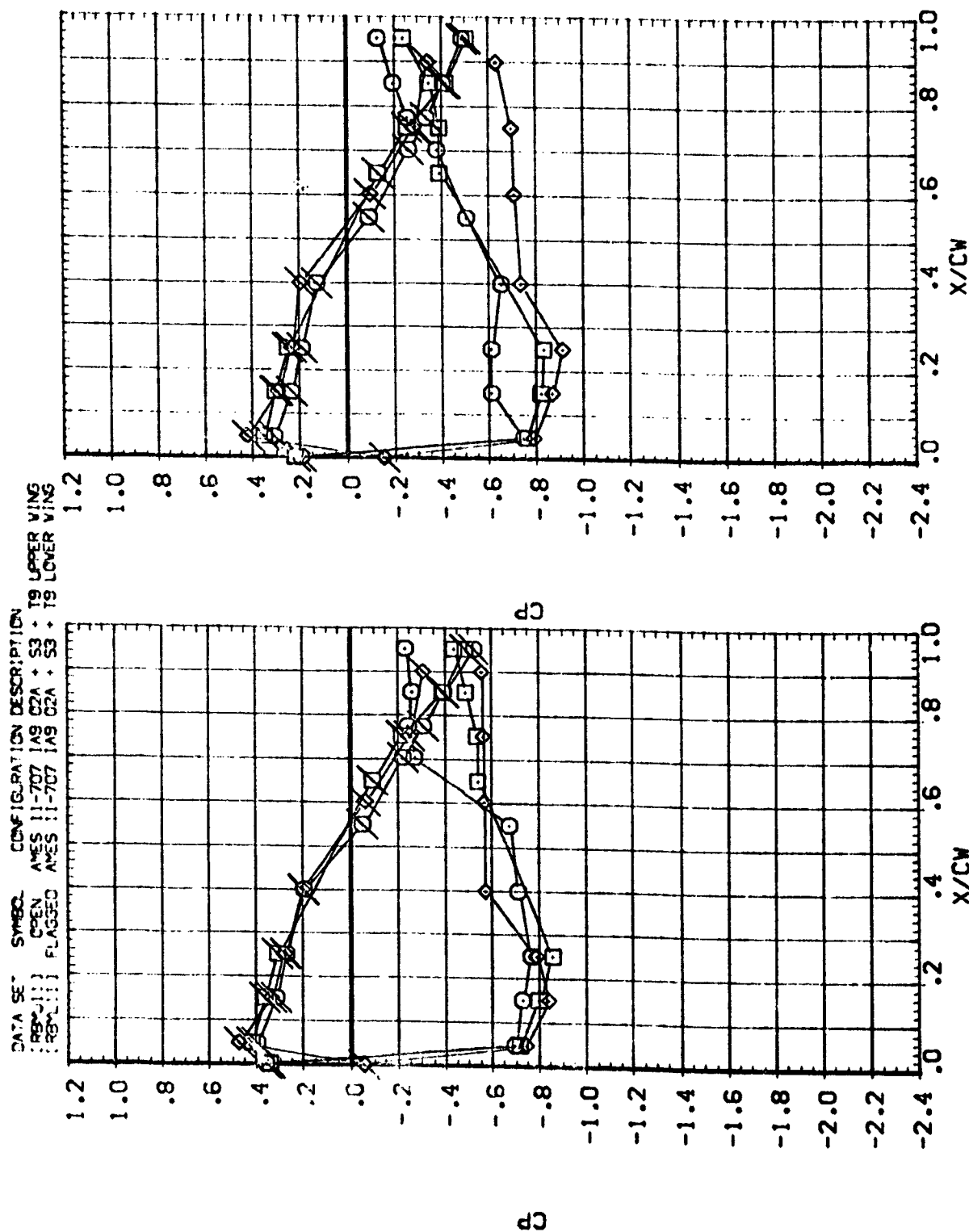
DATA SET SYMBOL CONFIGURATION DESCRIPTION
 [RSC-1] OPEN AVES 11-707 [A9 C2A + S3 + T9 UPPER WING
 [RSC-2] FLAIGED AVES 11-707 [A9 C2A + S3 + T9 LOWER WING



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

SYNOPSIS: V/BV .673 BETAT 4.15C MACH 1.103
 .78C 8.30C
 .98"

PARAMETRIC VALUES
 ALPHA 8.000
 RUDDER .000
 RUDDER ELEVON .000
 RUDDER .500
 RUDDER .000



PARAMETRIC VALUES

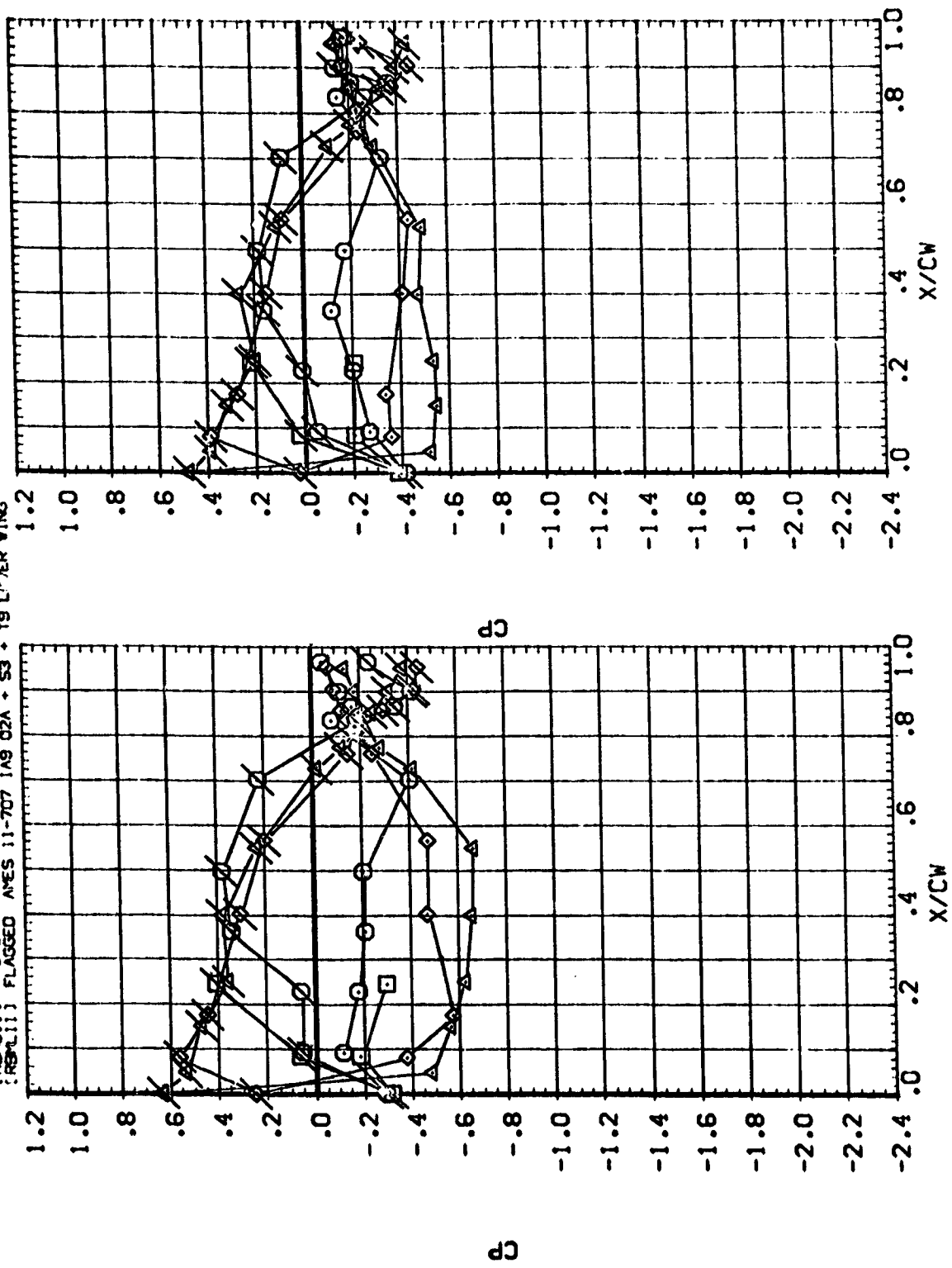
ALPHAT	8.000	ORBNIC	.500
RUDER	.000	ELEVON	.000
RUDCLR	.000		

SYMBOL Y/BV BETAT MACH

○	.299	-4.040	1.245
□	.364	2.080	
◇	.427		
△	.534		

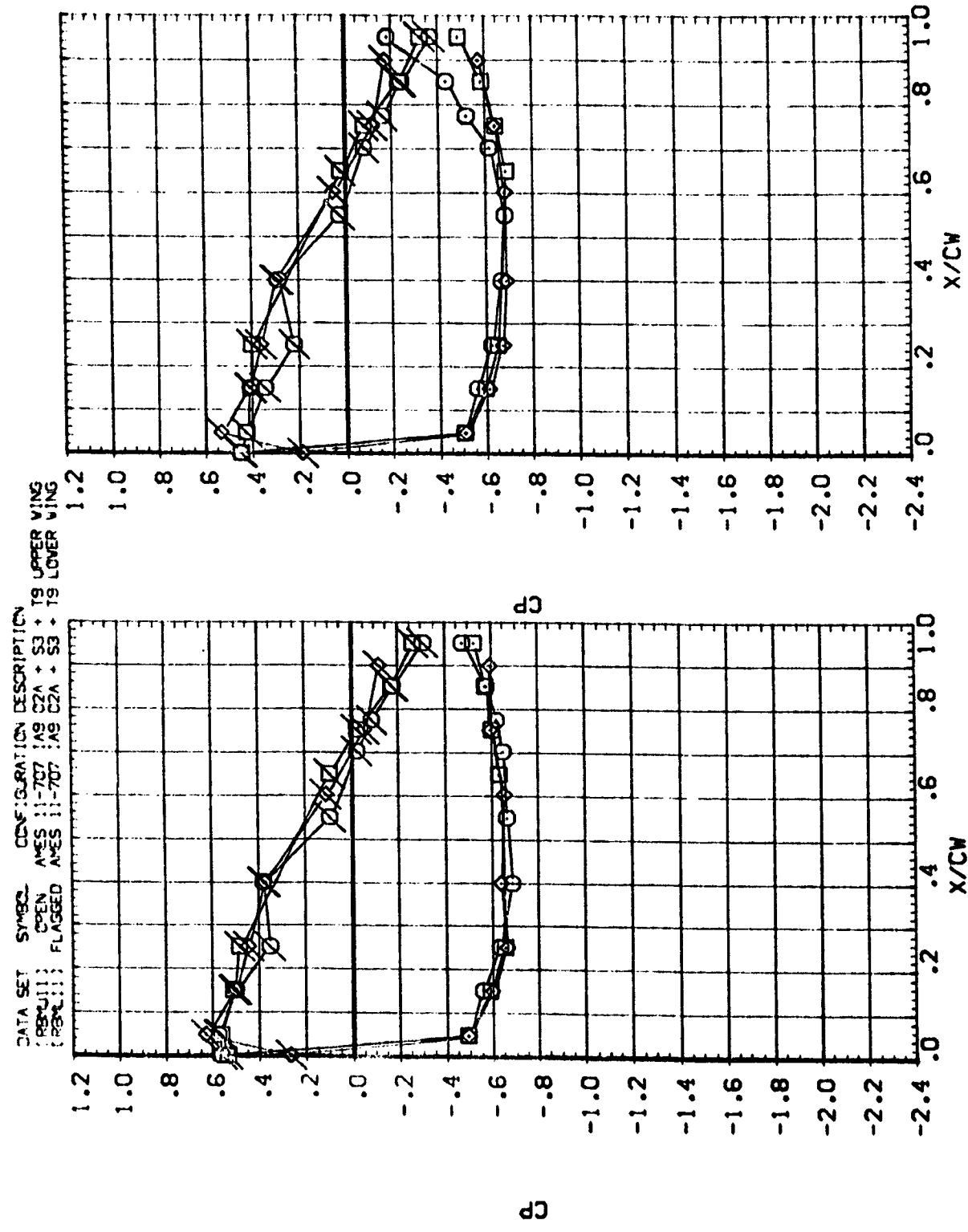
DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RE-111)	OPEN	ANES 11-707	1A8 02A + S3 + T9 UPPER VING
(RE-111)	FLAGGED	ANES 11-707	1A9 02A + S3 + T9 L'ER VING



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

SYMBOL	Y/BV	BETA	MACH	PARAMETRIC VALUES			
				ALPHAT	8.000	ORBITING	.500
	.673	-4.040	1.245	RUDDER	.000	ELEVON	.000
	.780	2.080		RJDFLR	.000		
	.887						



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

PARAMETRIC VALUES

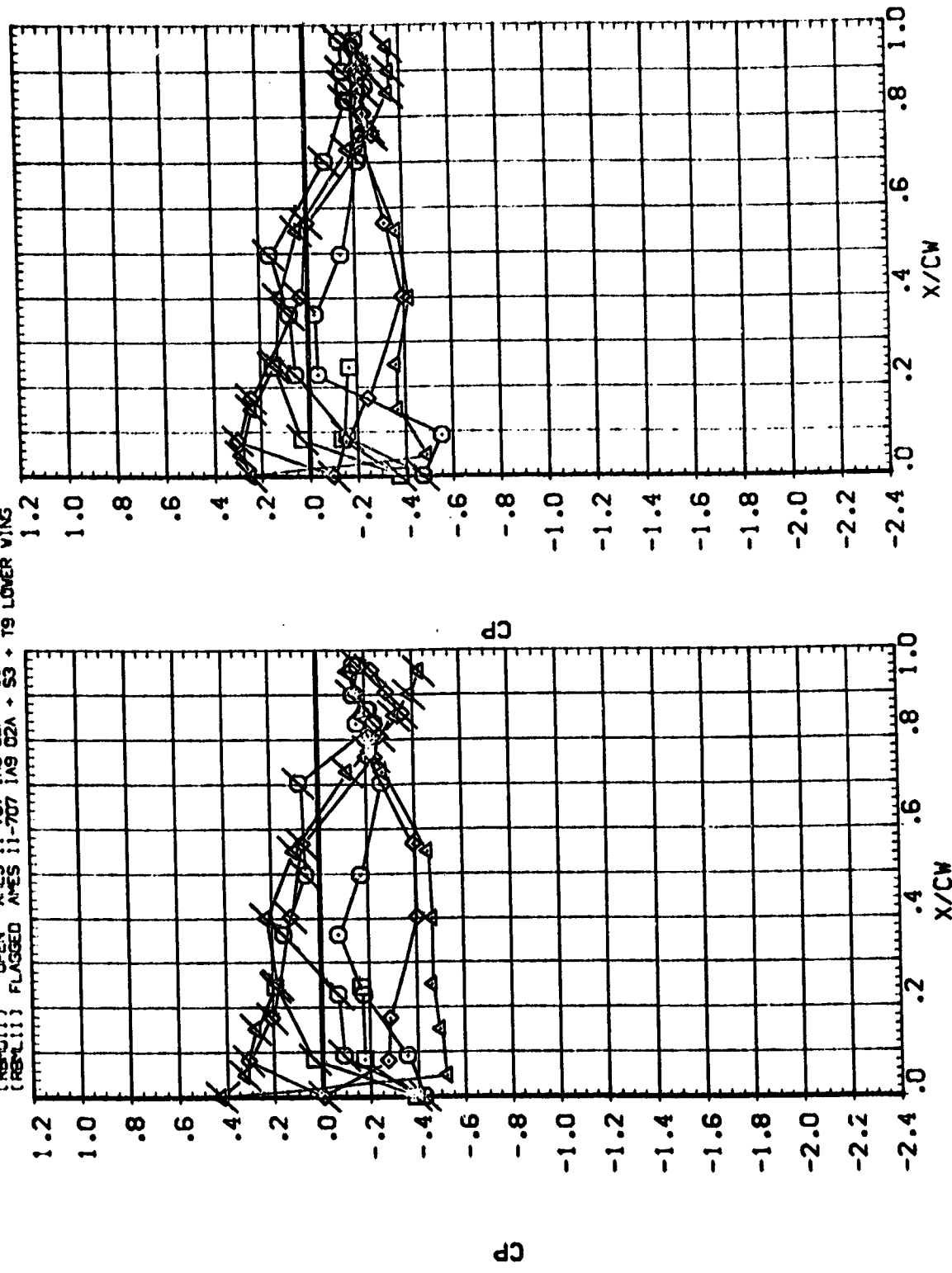
ALPHAT	8.000	OSBINC	.500
RLODEP	.000	ELEVON	.000
RJOF LR	.000		

SYMBOL Y/BV BETAT MACH

○	.299	4.130	1.245
□	.364	8.250	
◇	.427		
△	.534		

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RBU11)	OPEN	AMES 11-707 1A9 02A + S3 + TS UPPER WING
(RBU11)	FLAGGED	AMES 11-707 1A9 02A + S3 + TS LOWER WING



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

PARAMETRIC VALUES

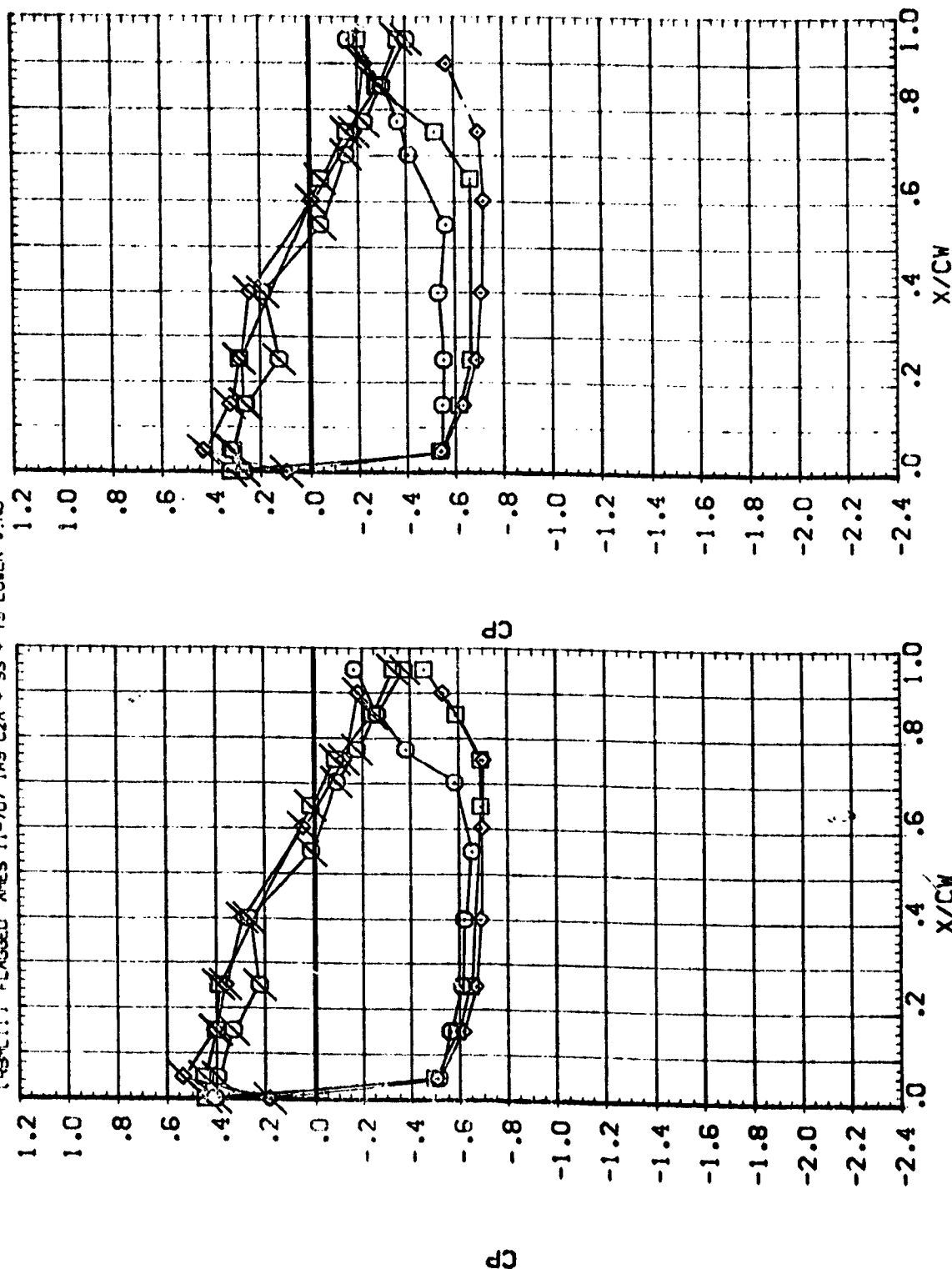
ALPHA	8.000	ORBIT	.500
RUDDER	.000	ELEV	.000
RUDFLR	.000		

SYMBOL V/BN BETA⁺ MACH

○	.673	4.130	1.245
□	.780	8.250	
◇	.887		

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RPM)	OPEN	AMES 11-707 1A9 C2A + S3 + T9 UPPER WING
(RPM)	FLAGGED	AMES 11-707 1A9 C2A + S3 + T9 LOWER WING



CHORDWISE DISTRIBUTION OF UPPER AND LOWER SURFACE WING PRESSURES

PARAMETRIC VALUES

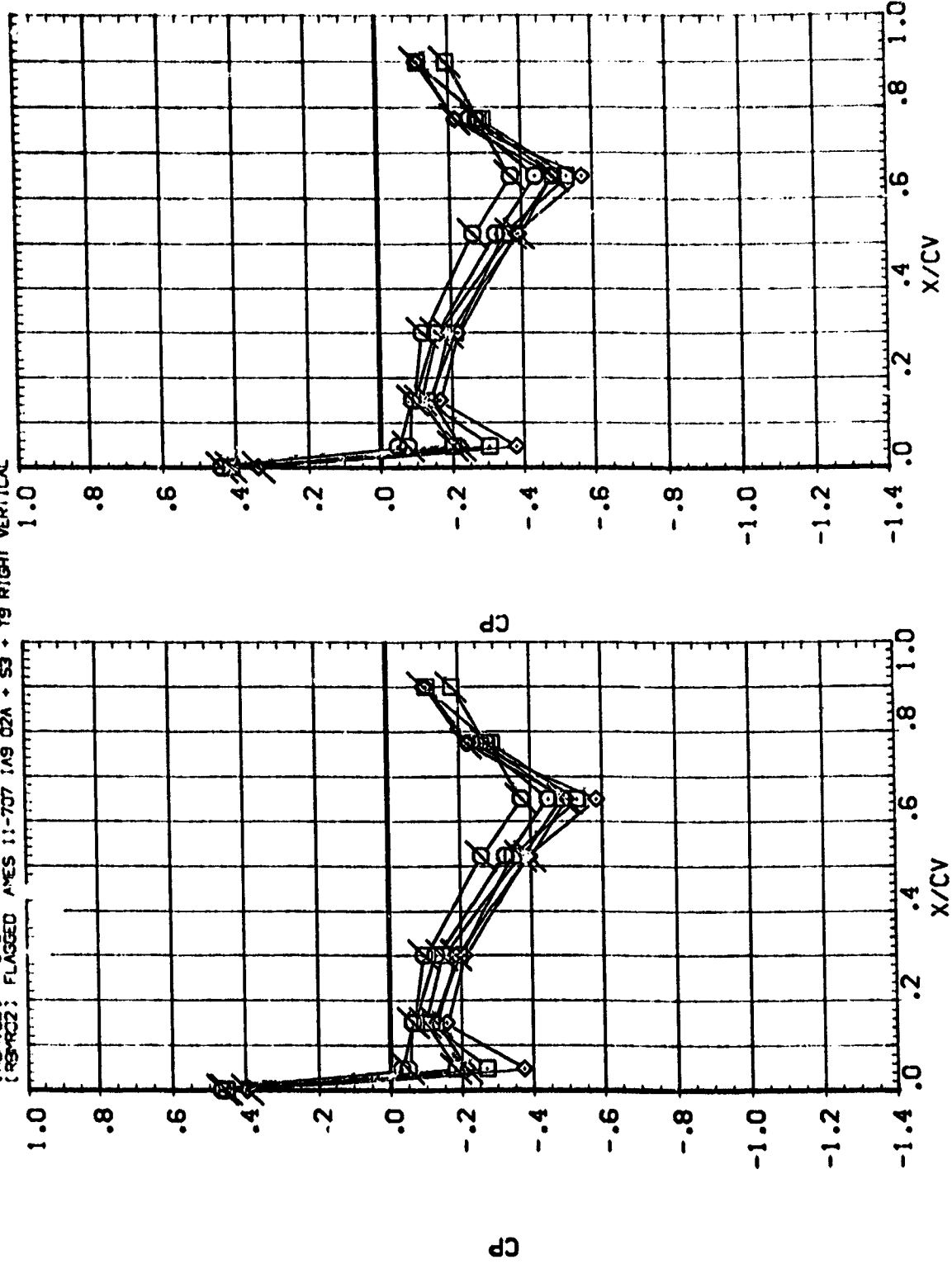
BETAT	.000	ORBINC	.500
RJDDER	.000	ELEVON	.000
RJDFLR	.000		

SYMBOL Z/BV ALPHAT MACH

○	.58	-3.990	.588
□	.316	.020	
◇	.600		

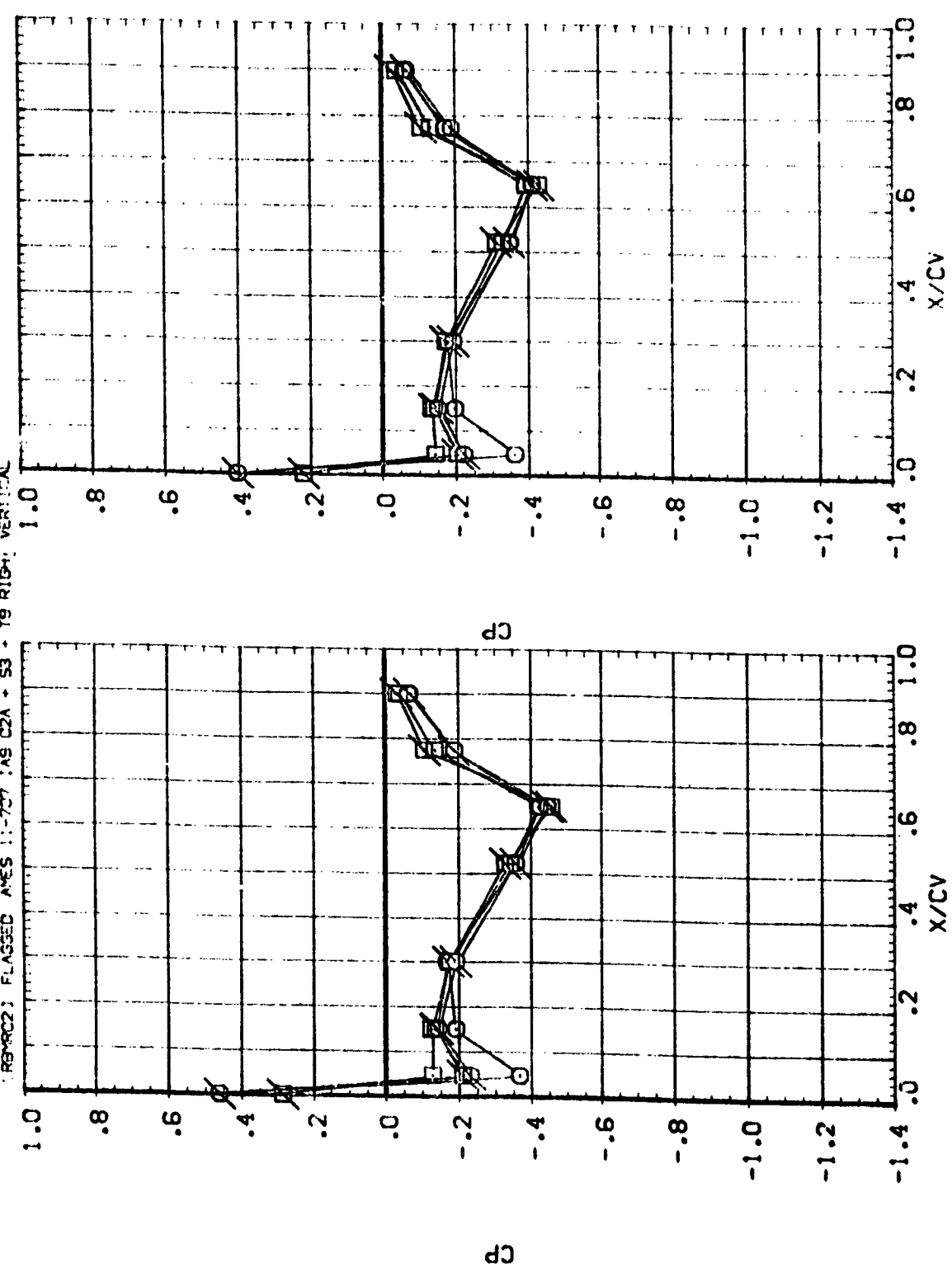
DATA SET SYMBOL CONFIGURATION DESCRIPTION

RESV02	OPEN	AMES 11-707	AS 02A + S3 + T9 LEFT VERTICAL
RESV02	FLAGGED	AMES 11-707	AS 02A + S3 + T9 RIGHT VERTICAL



SYMBOL Z/BV ALPHAT MACH
 .84C -3.990 .598
 .925 070

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 REFINO2 OPEN ANES 1: -707 AS C2A + S3 + 10 LEFT VERTICAL
 REFINO2 FLAGGED ANES 1: -707 AS C2A + S3 + 10 RIGHT VERTICAL



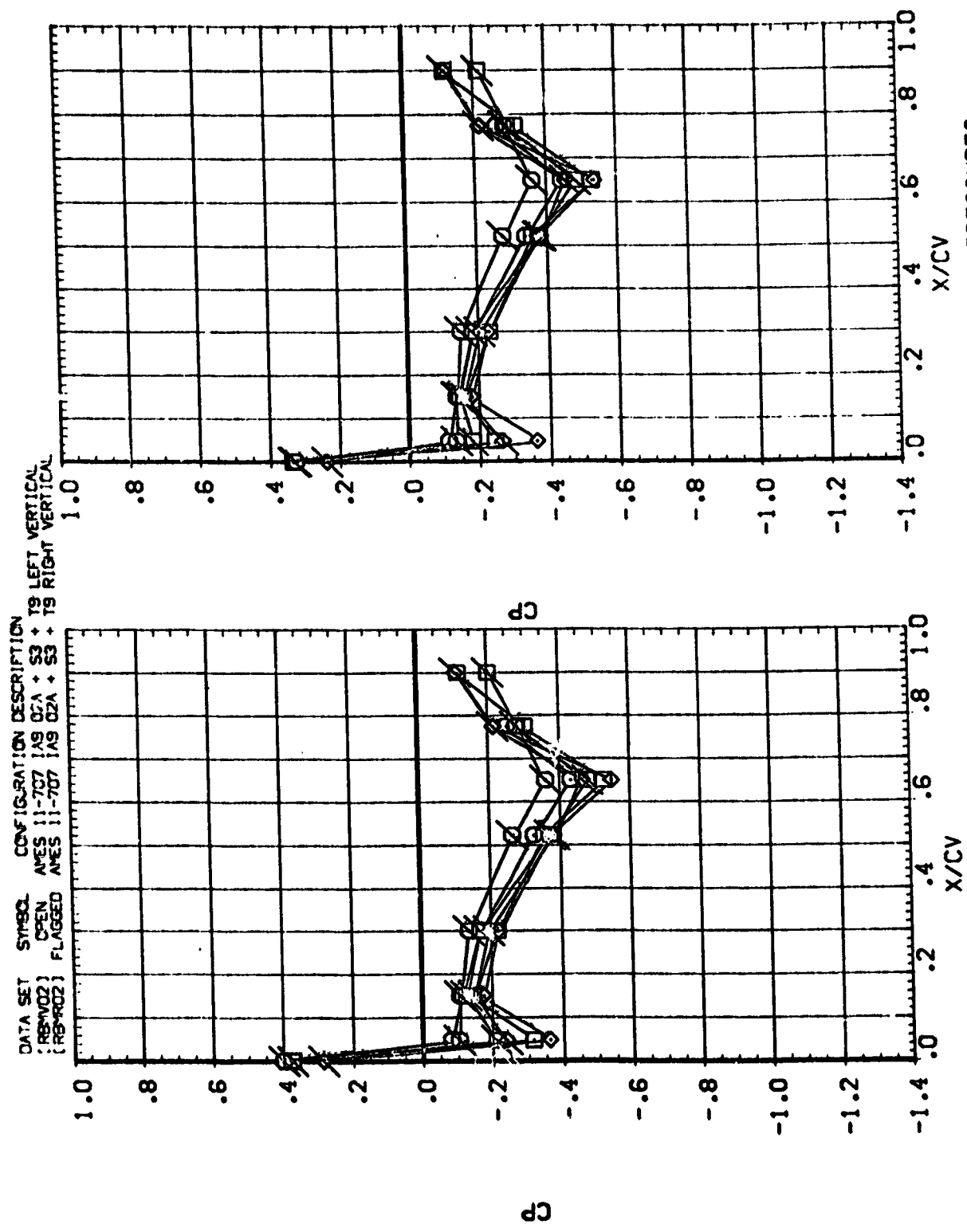
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

PARAMETRIC VALUES

BETAT	.000	DRBINC	.500
RJODER	.000	ELEVON	.000
RJDFLR	.000		

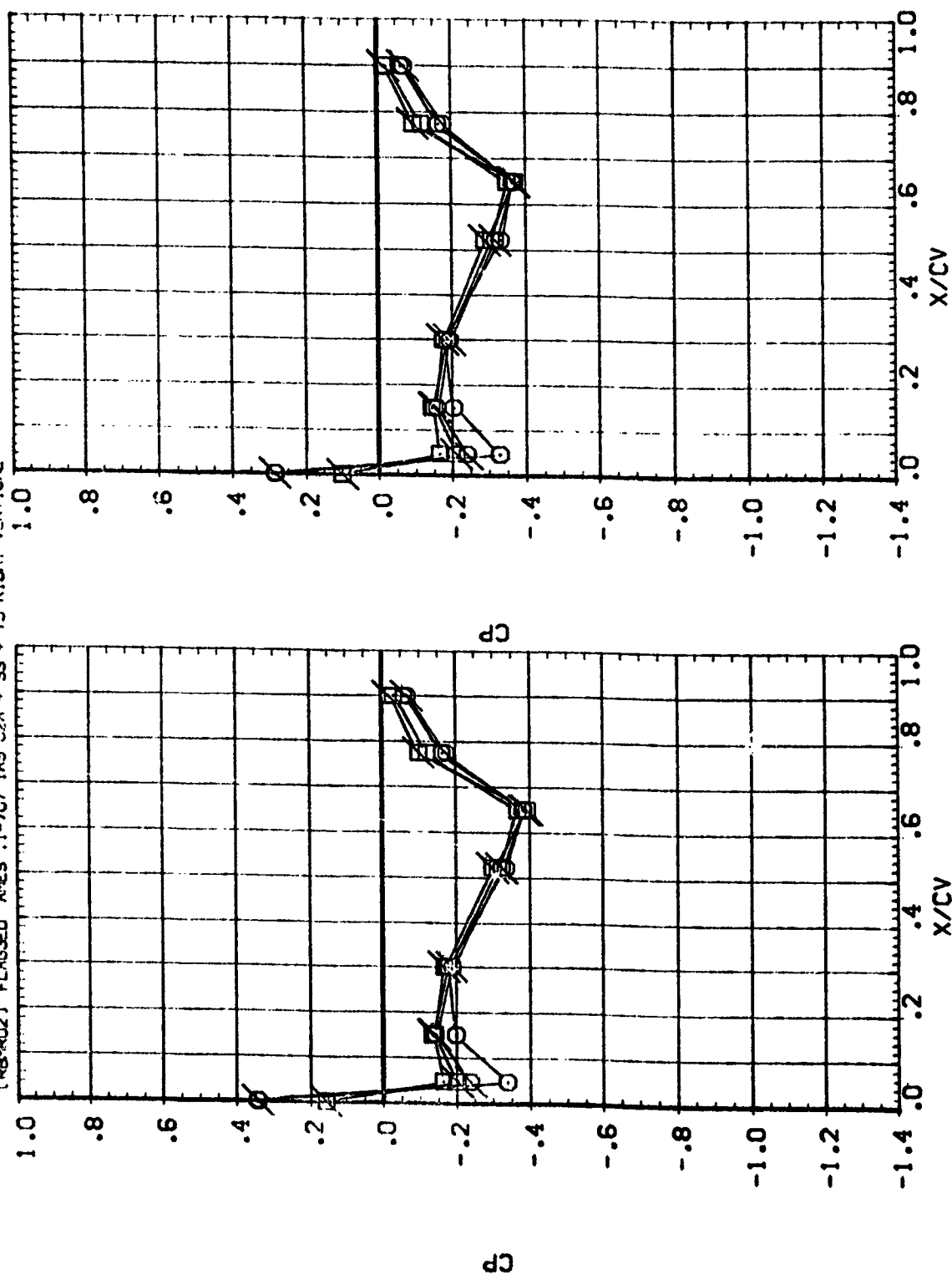
SYMBOL

Z/BV	ALPHAT	MACH
.158	4.020	.598
.316	8.000	
.600		



SWBC	Z/BV	ALPHA	MACH
10	.840	4.020	.598
	.925	8.000	

DATA SET	SYMBOL	CONFIGURATION	DESCRIPTION
CPEN	CPEN	11-707 1A9 02A + S3 + T9	LEFT VERTICAL
FLIGHT	FLIGHT	11-707 1A9 02A + S3 + T9	RIGHT VERTICAL

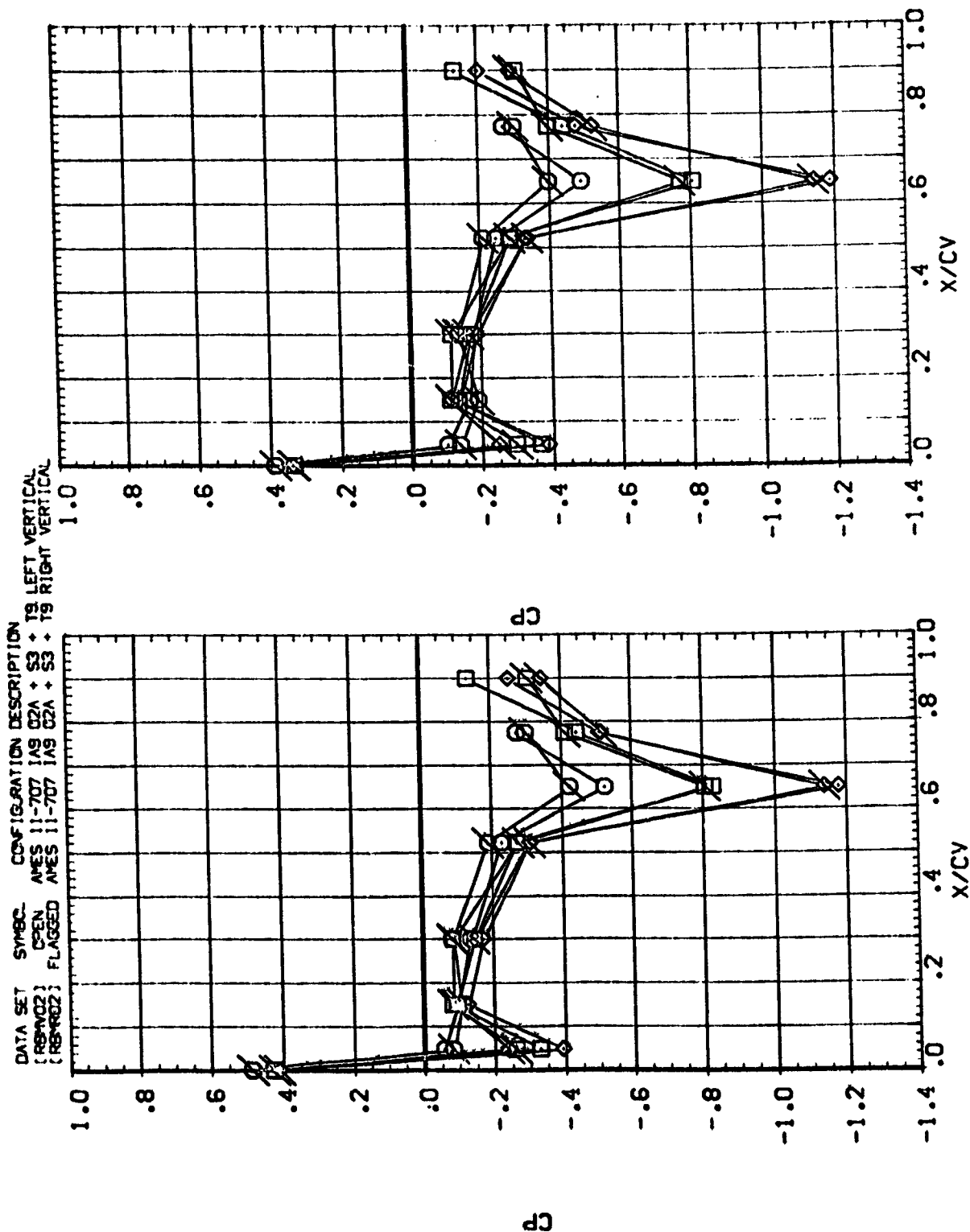


CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

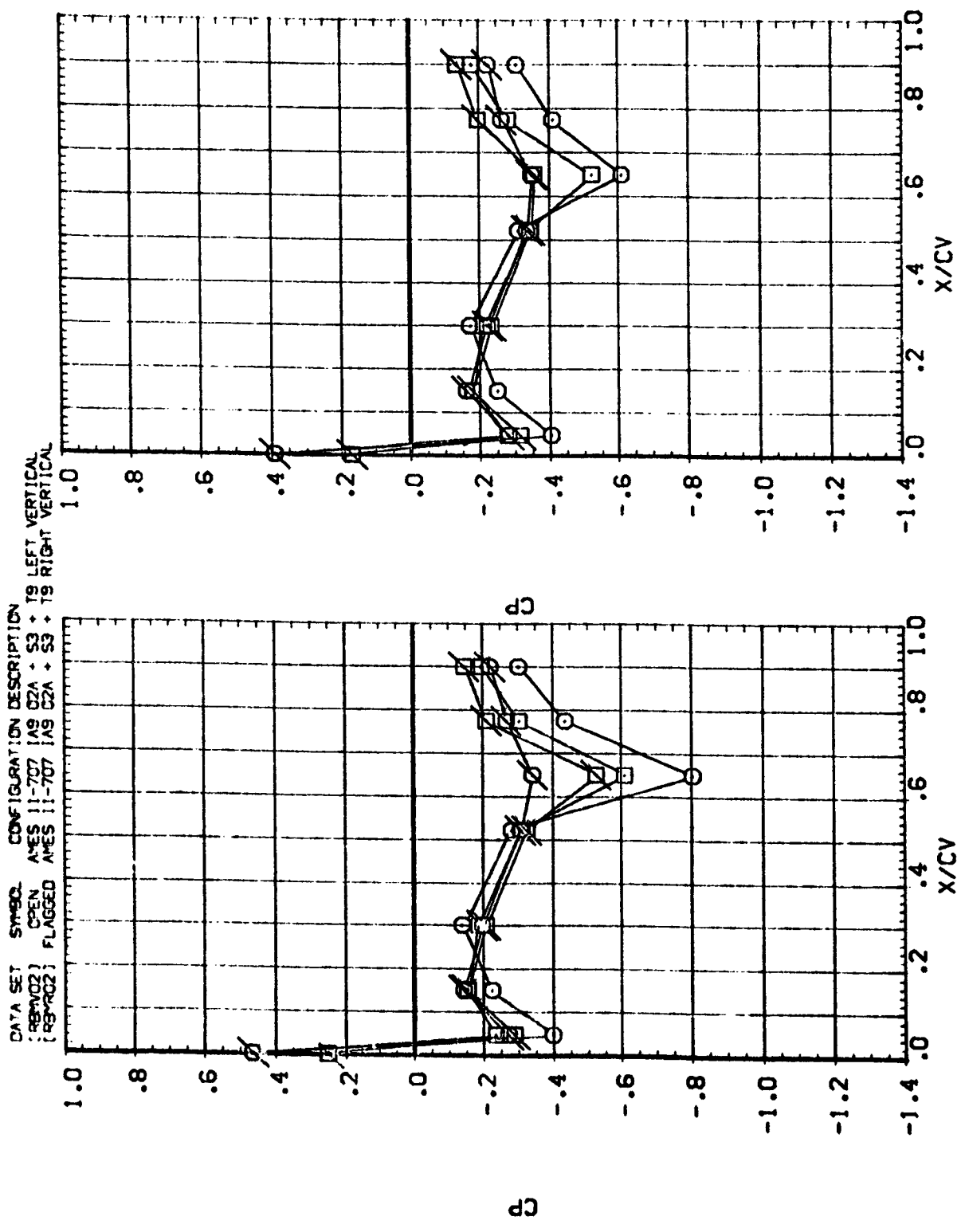
PARAMETRIC VALUES
 .000 .000 .000
 .000 .000 .000
 .000 .000 .000

BETAT
 RUOER
 RUOFLR

SYMBOL Z/BV ALPHA T MACH
 .158 -4.030 .903
 .316 .010
 .600



SYMBOL Z/BV .84C .975 ALPHAAT -4.030 .903 MACH .500
 (C) I .000 ORBINC .000
 BETAT .000 ELEVON .000
 RUDDER .000 RUJFLR .000



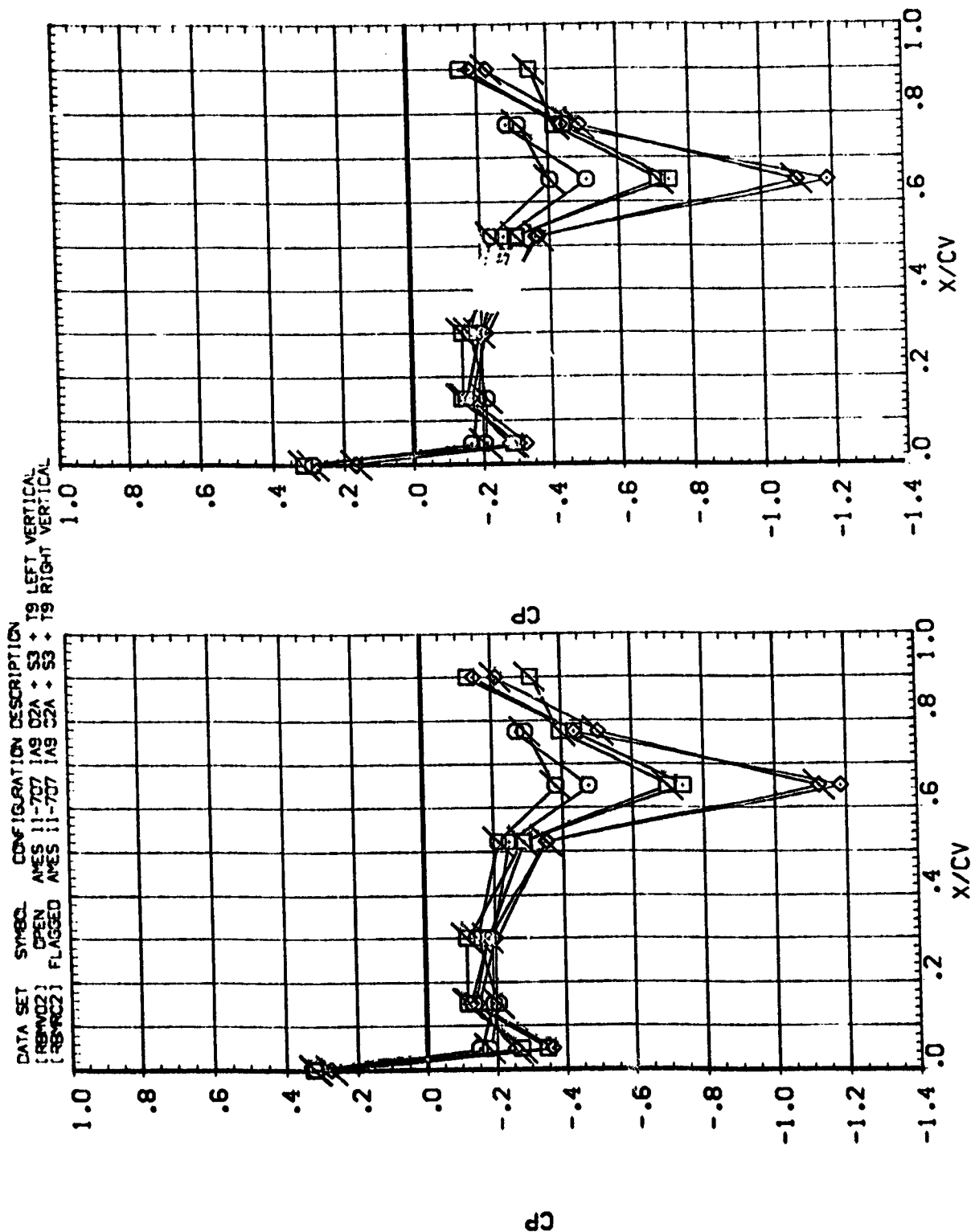
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

PARAMETRIC VALUES

BETAT	.000	DRBINC	.500
RLODR	.000	ELEVON	.000
RLOFLR	.000		

SYMBOL

Z/BV	ALPHAT	MACH
.158	4.040	.903
.316	8.000	
.600		



SYMBOL Z/BV ALPHA MACH

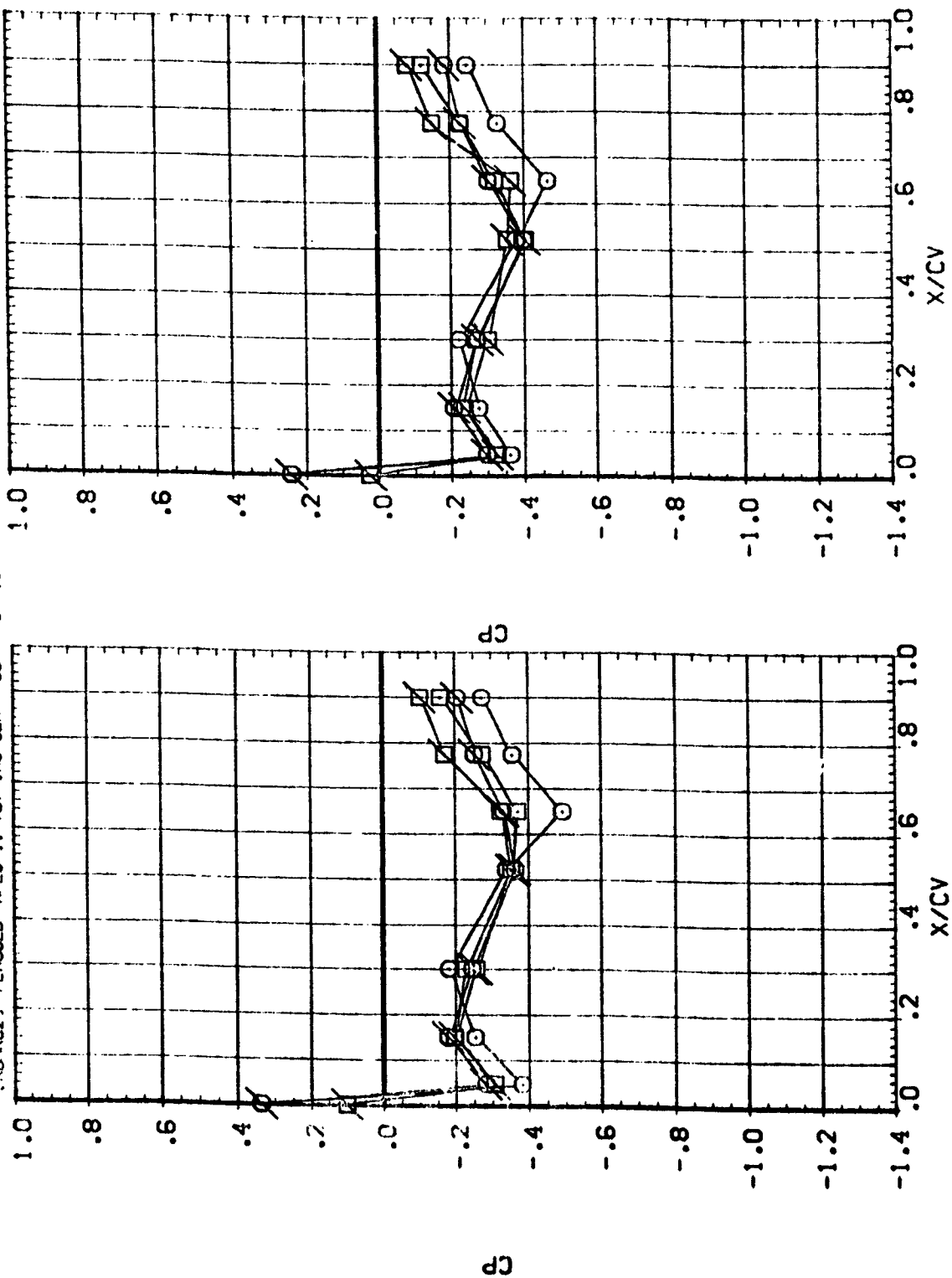
BETAT
RUDDER
RUDDLR

PARAMETRIC VALUES

.000 ORBINC
.000 ELEVON
.000

.500
.000

DATA SET SYMBO CONFIGURATION DESCRIPTION
(SERVO2) OPEN ASES 11-707 1A9 02A + S3 + T9 LEFT VERTICAL
(RBRRC2) FLAGGED ASES 11-707 1A9 02A + S3 + T9 RIGHT VERTICAL



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

PARAMETRIC VALUES

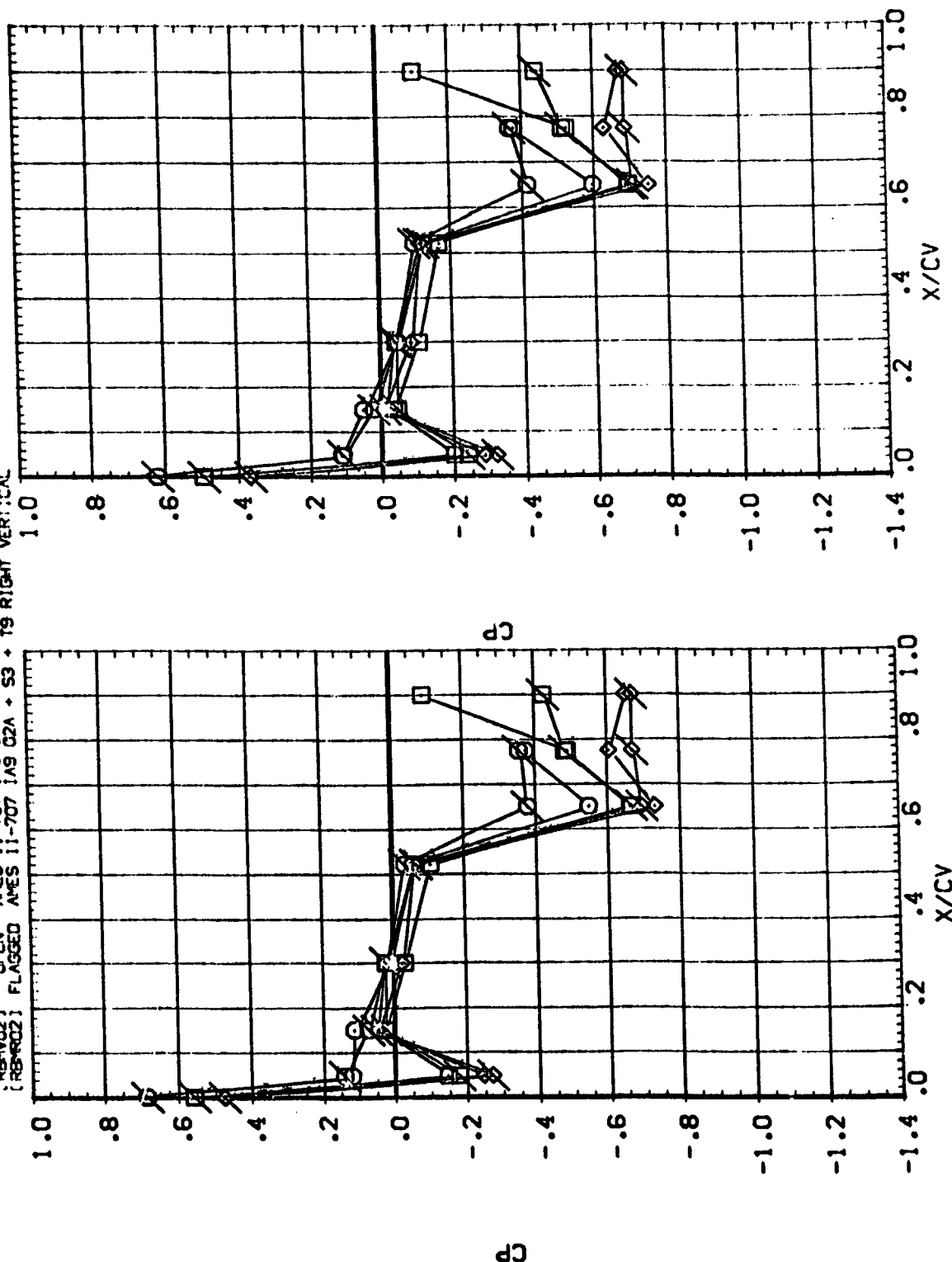
BETAT	.000	ORBITC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

SYMBOL Z/BV

ALPHAT	MACH
-4.000	1.102
-.030	

DATA SET SYMBOL CONFIGURATION DESCRIPTION

REMOVED	OPEN	ANES 11-707 1A9 02A + S3 + T9 LEFT VERTICAL
REMOVED	FLAGGED	ANES 11-707 1A9 02A + S3 + T9 RIGHT VERTICAL

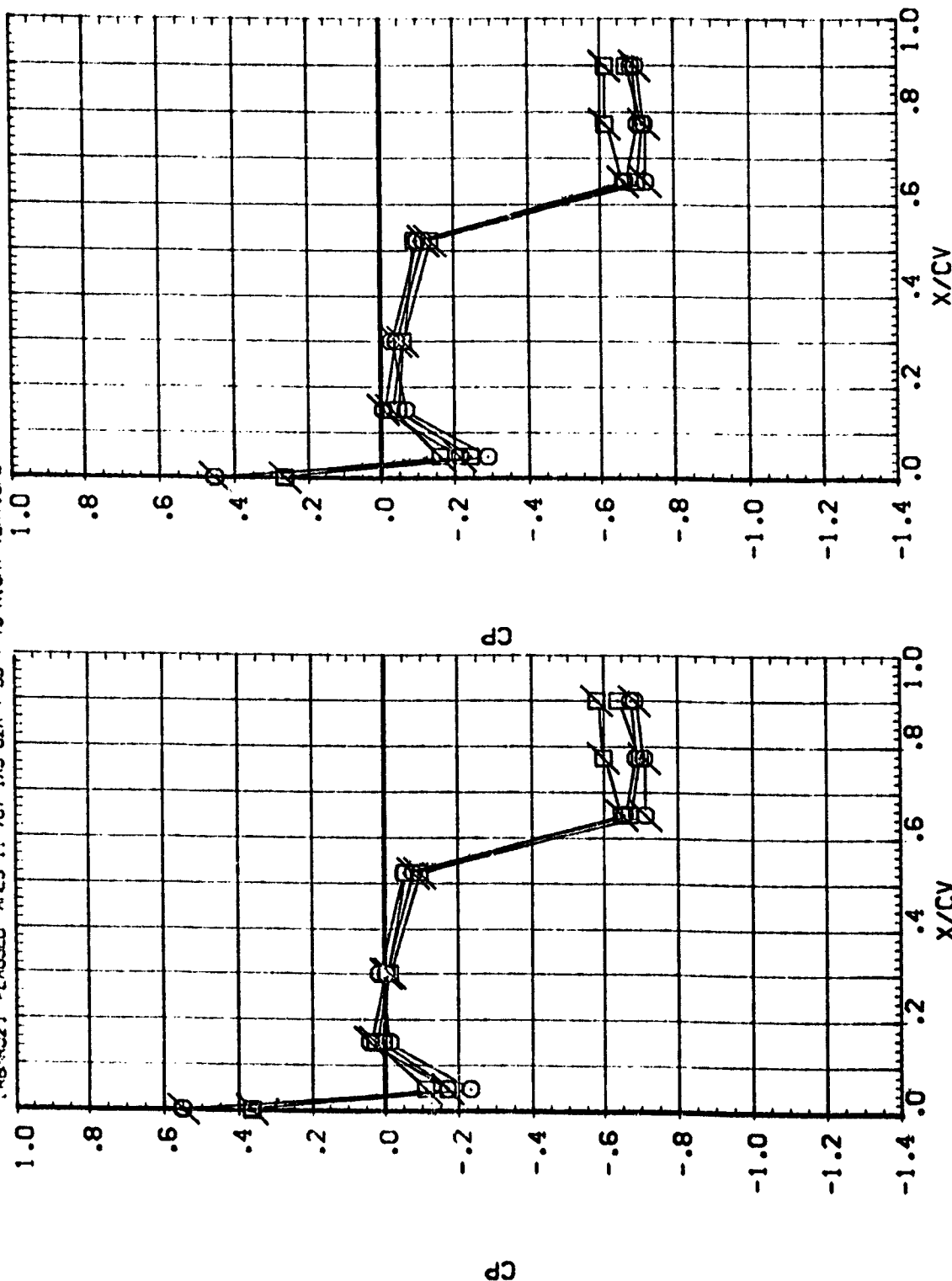


CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL Z/BV ALPHAT MACH
 101 .84C -4.00C 1.02
 .925 -.030

PARAMETRIC VALUES
 BETAT .000 ORBINC .500
 RUDDER .000 ELEVON .000
 R.O.F.L.R .000

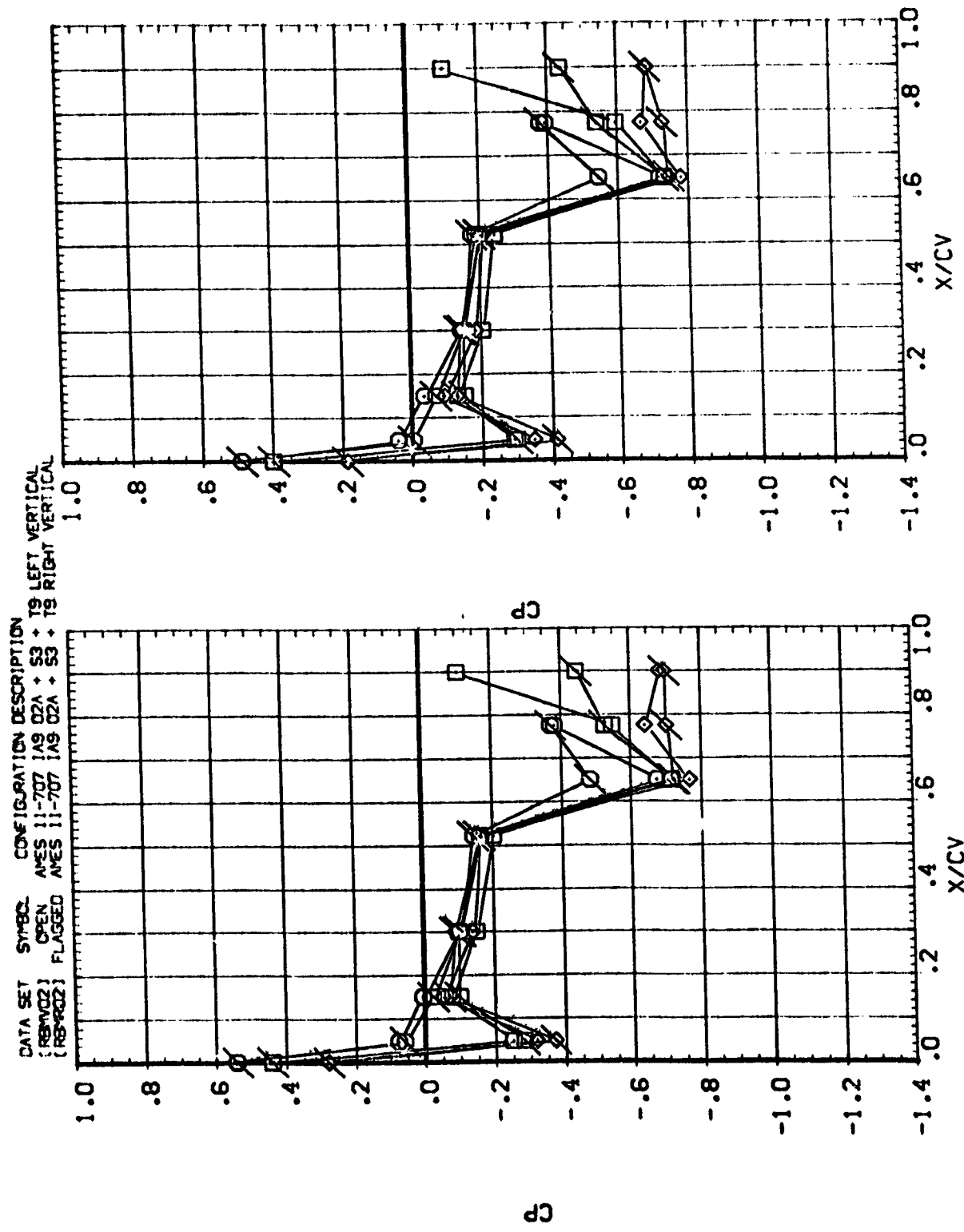
DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RBMVC2) OPEN AHES 11-707 1A9 C2A + S3 + T9 LEFT VERTICAL
 (RBMVC2) FLAGGED AHES 11-707 1A9 C2A + S3 + T9 RIGHT VERTICAL



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

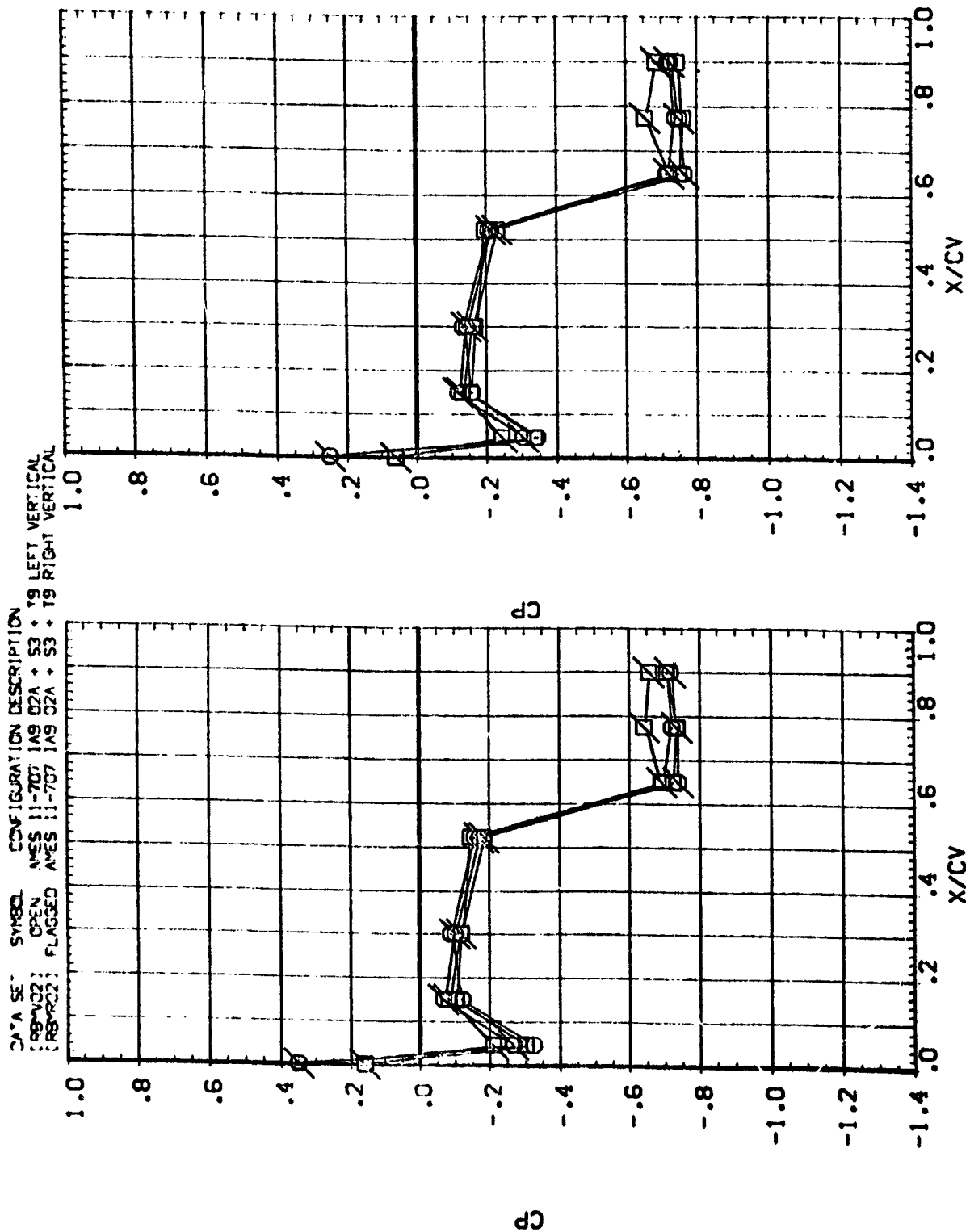


SYMBOL Z/BV ALPHAT MACH BETAT DRBINC ELEVON
 .158 3.980 1.102 .000 .000
 .315 7.940 .000 .000 .000
 .600 .500



SYMBOL Z/BV ALPHA WACH
 .84C 3.98C 1.102
 .925 7.94C

PARAMETRIC VALUES
 .000 ORBINC .500
 .000 ELEVEN .000
 BETAT
 RUDDER
 RUOFLR



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

PARAMETRIC VALUES

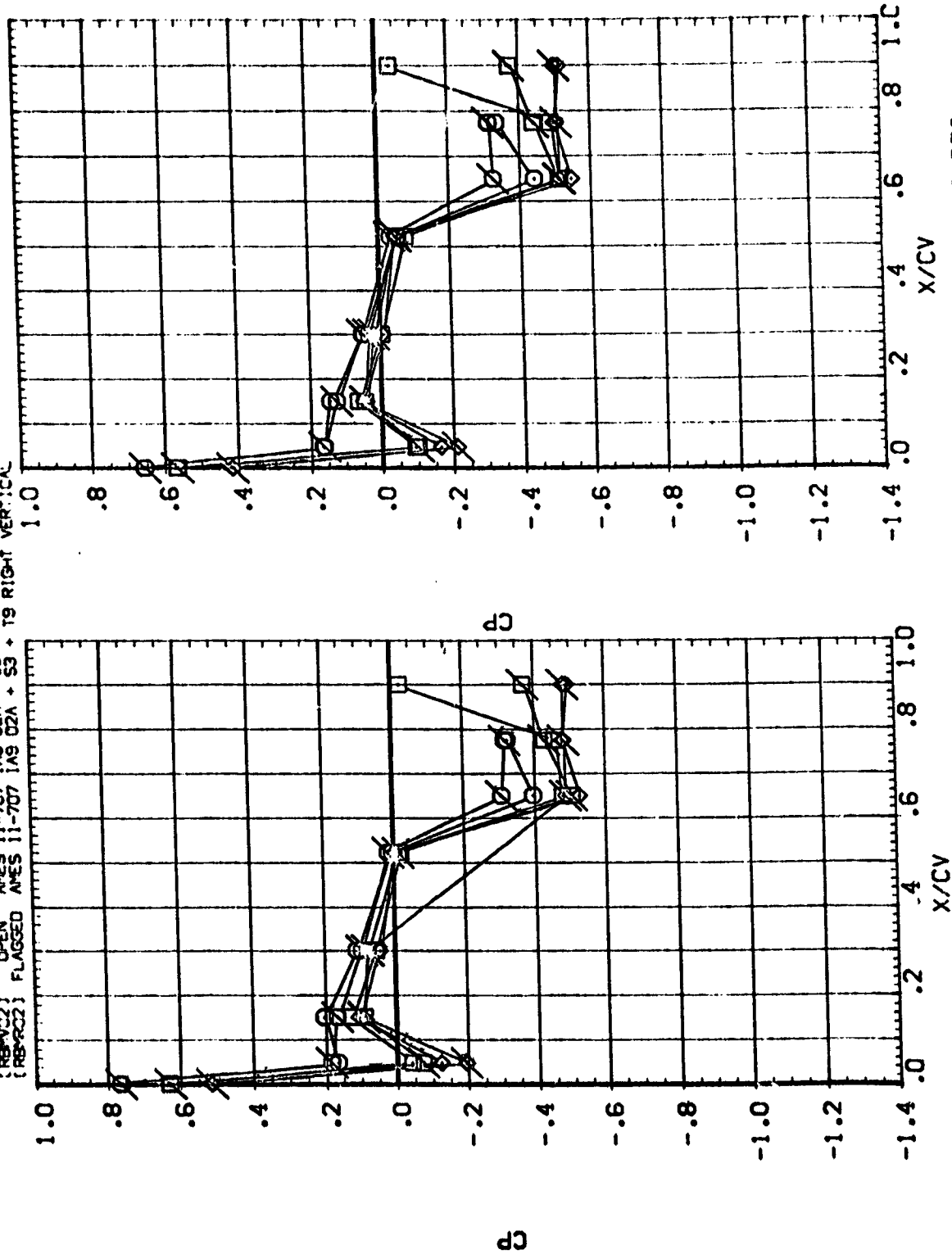
BETAT	.000	ORBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

SYMBOL Z/BV ALPHAT MACH

□	.158	-3.980	1.249
◇	.316	.040	
◇	.600		

DATA SET SYMBOL CONFIGURATION DESCRIPTION

{ RB-VC2 }	OPEN	ANES 11-707	1A9 02A + S3 + T9	LEFT VERTICAL
{ RB-VC2 }	FLAGGED	ANES 11-707	1A9 02A + S3 + T9	RIGHT VERTICAL

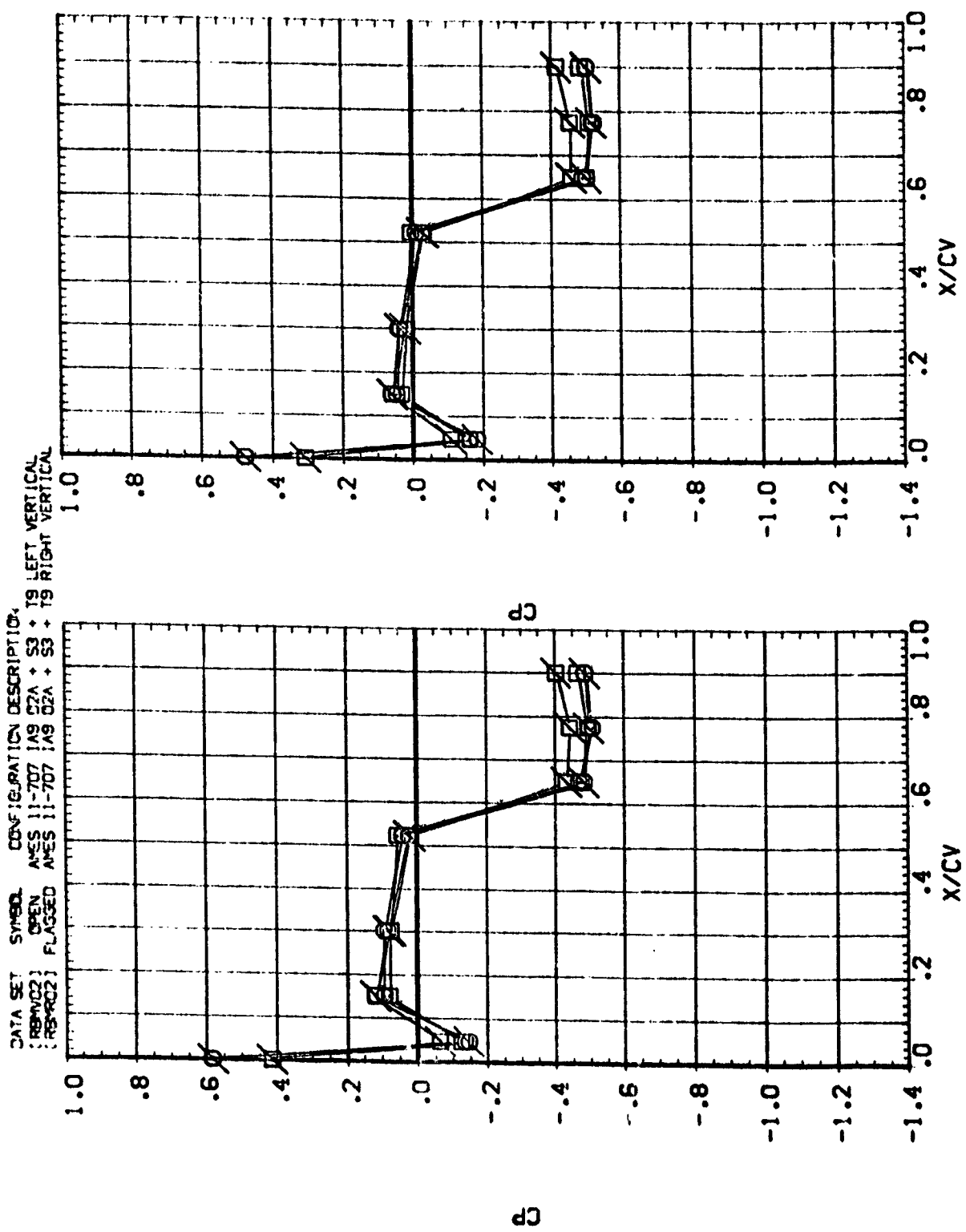


PARAMETRIC VALUES

BETAT	.000	ORBNIC	.500
RJDOER	.000	ELEVON	.000
RJOFIR	.000		

SUBC Z/BN ALPHAT MACH

.840	-3.980	1.249
.925	.040	



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

PARAMETRIC VALUES

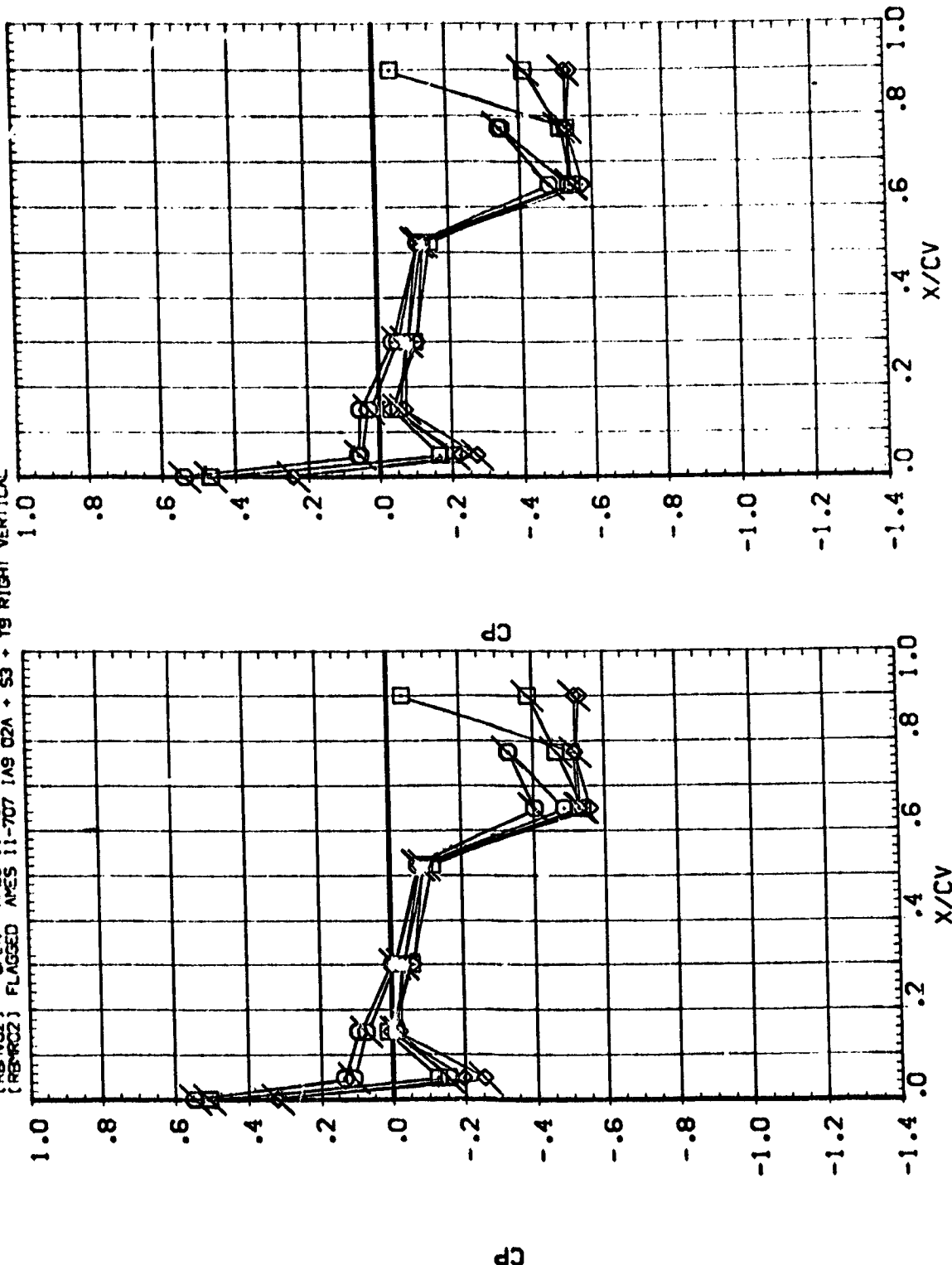
BETAT	.000	CRBINC	.500
RUDDER	.000	ELEVON	.000
R.O.F.L.R	.000		

SYMBOL Z/BV ALPHAT MACH

□	.158	3.970	1.249
○	.316	7.980	
◇	.600		

DATA SET SYMBOL CONFIGURATION DESCRIPTION

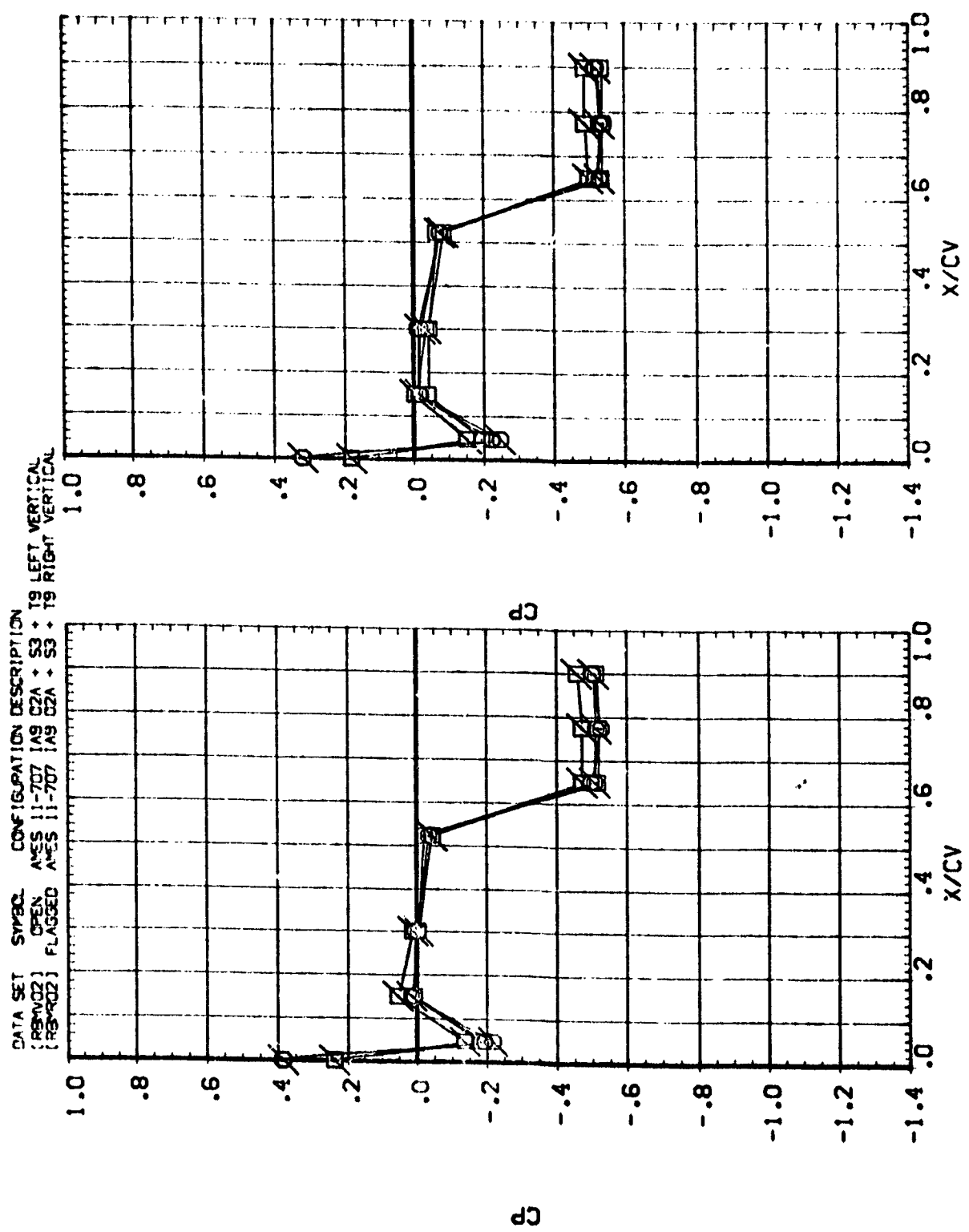
[REMOVED]	OPEN	AKES 11-707 1A9 02A + S3 + T9 LEFT VERTICAL
[REMOVED]	FLAGGED	AKES 11-707 1A9 02A + S3 + T9 RIGHT VERTICAL



SYNOPSIS Z/BV ALPHA MACH
 .840 3.97C 1.249
 .925 7.98C

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RPM02) OPEN ASES 11-707 IAS C2A + S3 + T9 LEFT VERTICAL
 (RPM02) FLAGGED ASES 11-707 IAS C2A + S3 + T9 RIGHT VERTICAL

PARAMETRIC VALUES
 BETAT .000 ORBINC .500
 RUDDER .000 ELEVON .000
 RFLR .000



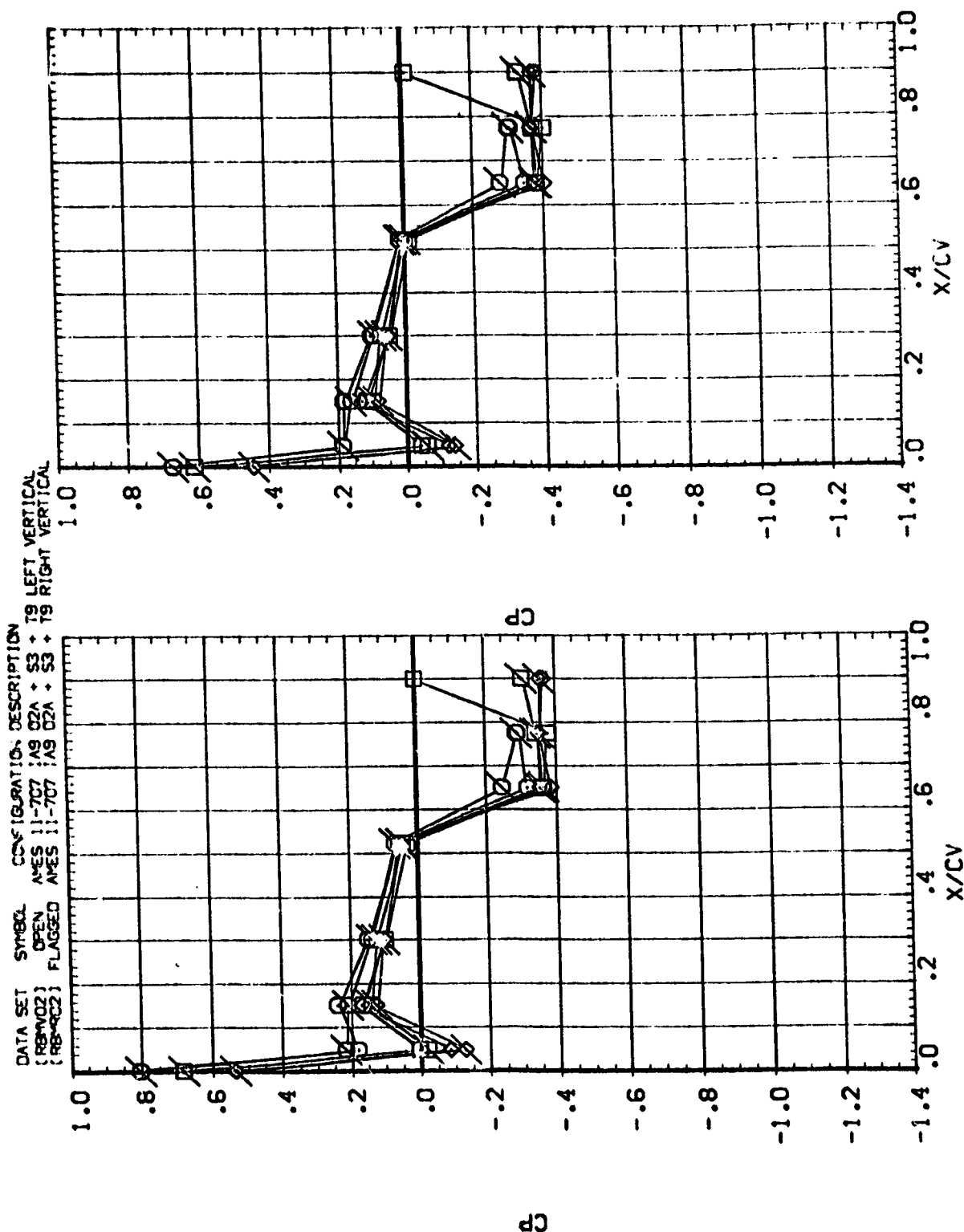
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

PARAMETRIC VALUES

BETAT	.000	ORGINC	.500
RJODER	.000	ELEVON	.000
RJOFER	.000		

SYMBOL Z/BV ALPHAT MACH

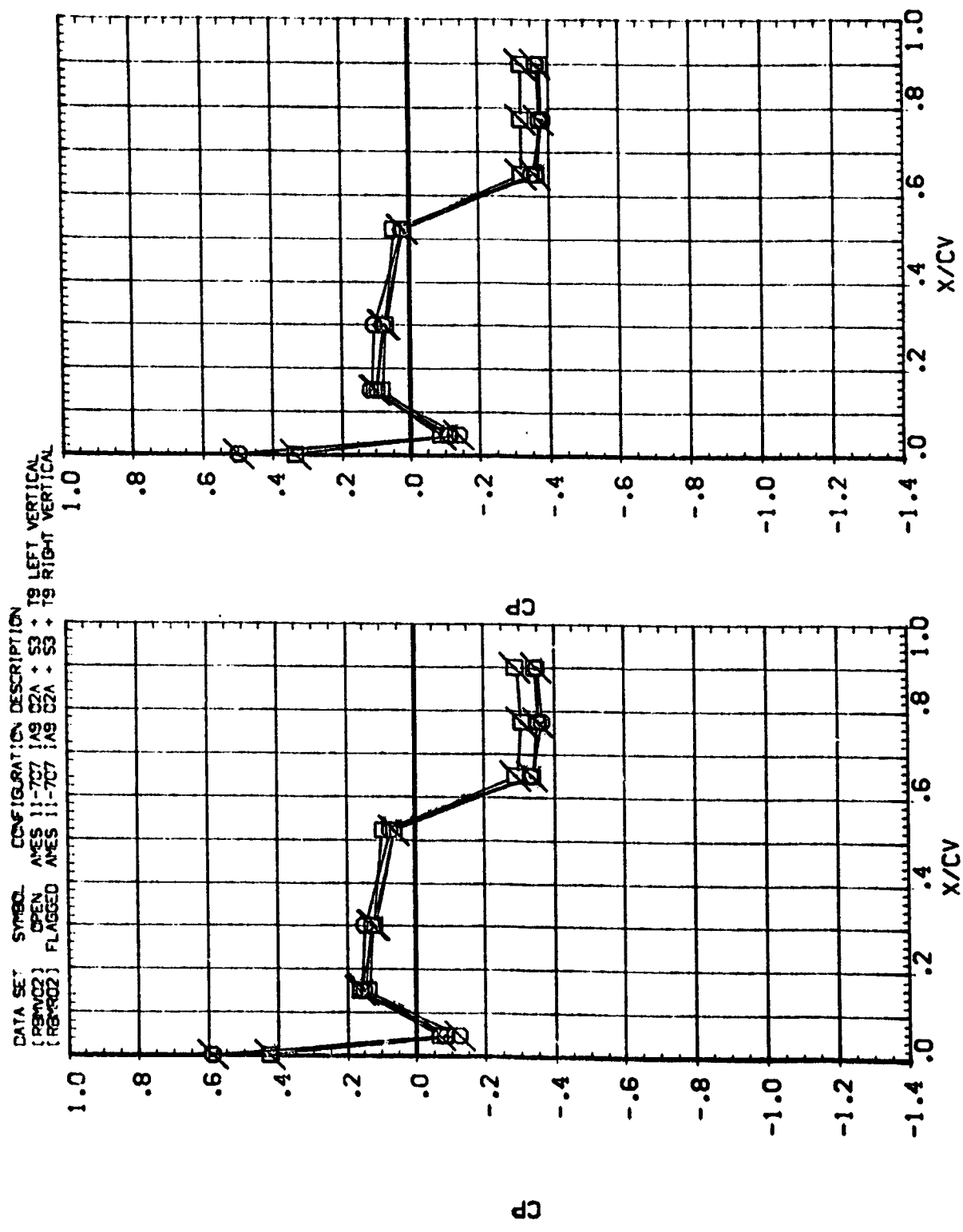
.158	-3.98U	1.40
.316	.040	
.600		



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SYNCH Z/BV .842 ALP-JAT MACH .1401
 .925 -3.980 .040

PARAMETRIC VALUES
 BETAT .000 ORBINC .500
 RUDDER .000 ELEVON .000
 RUOFLR .000



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES



SYMBOL

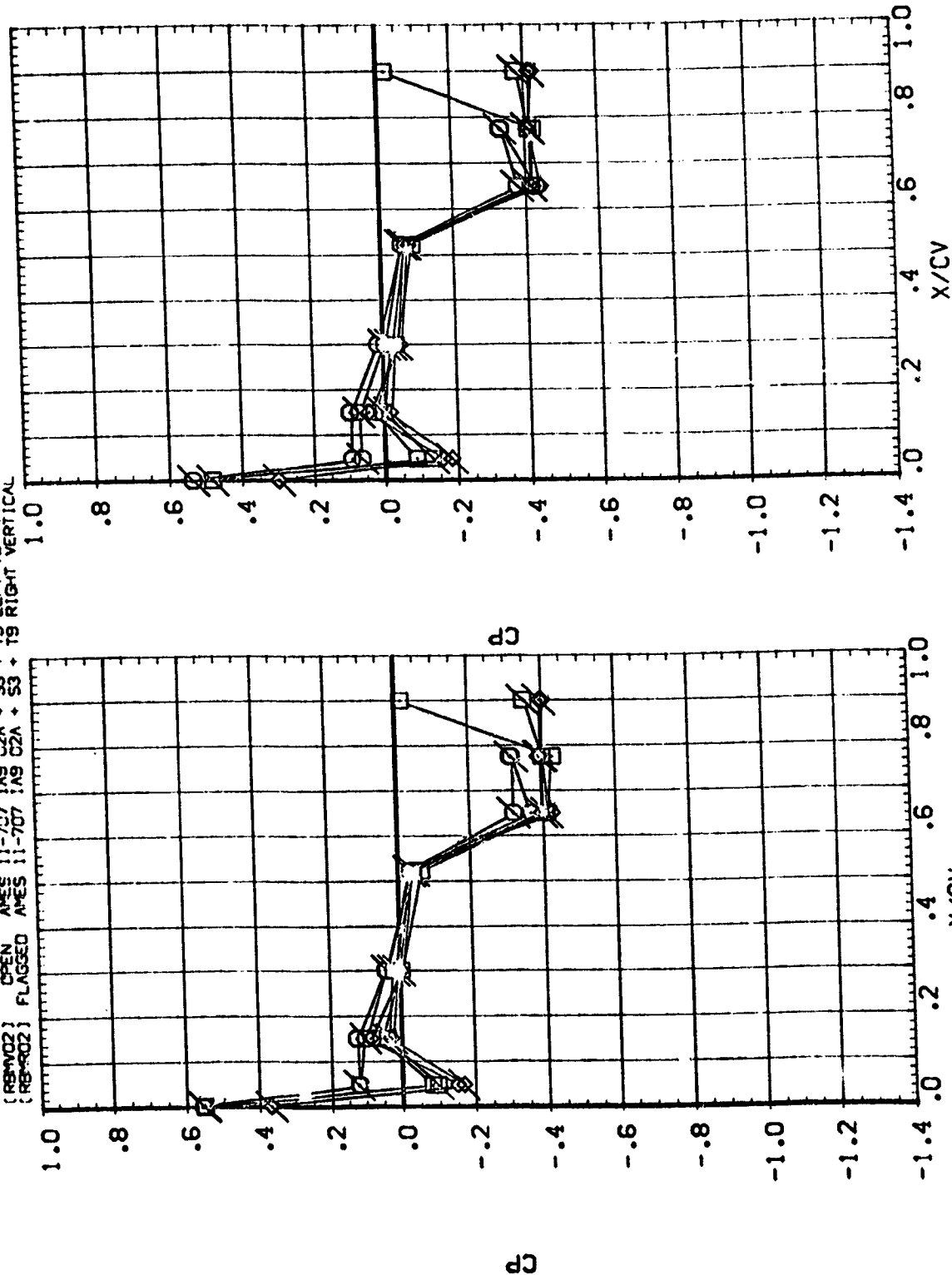
Z/BV
.158
.316
.600

ALPHA
3.950
7.990

MACH
1.401

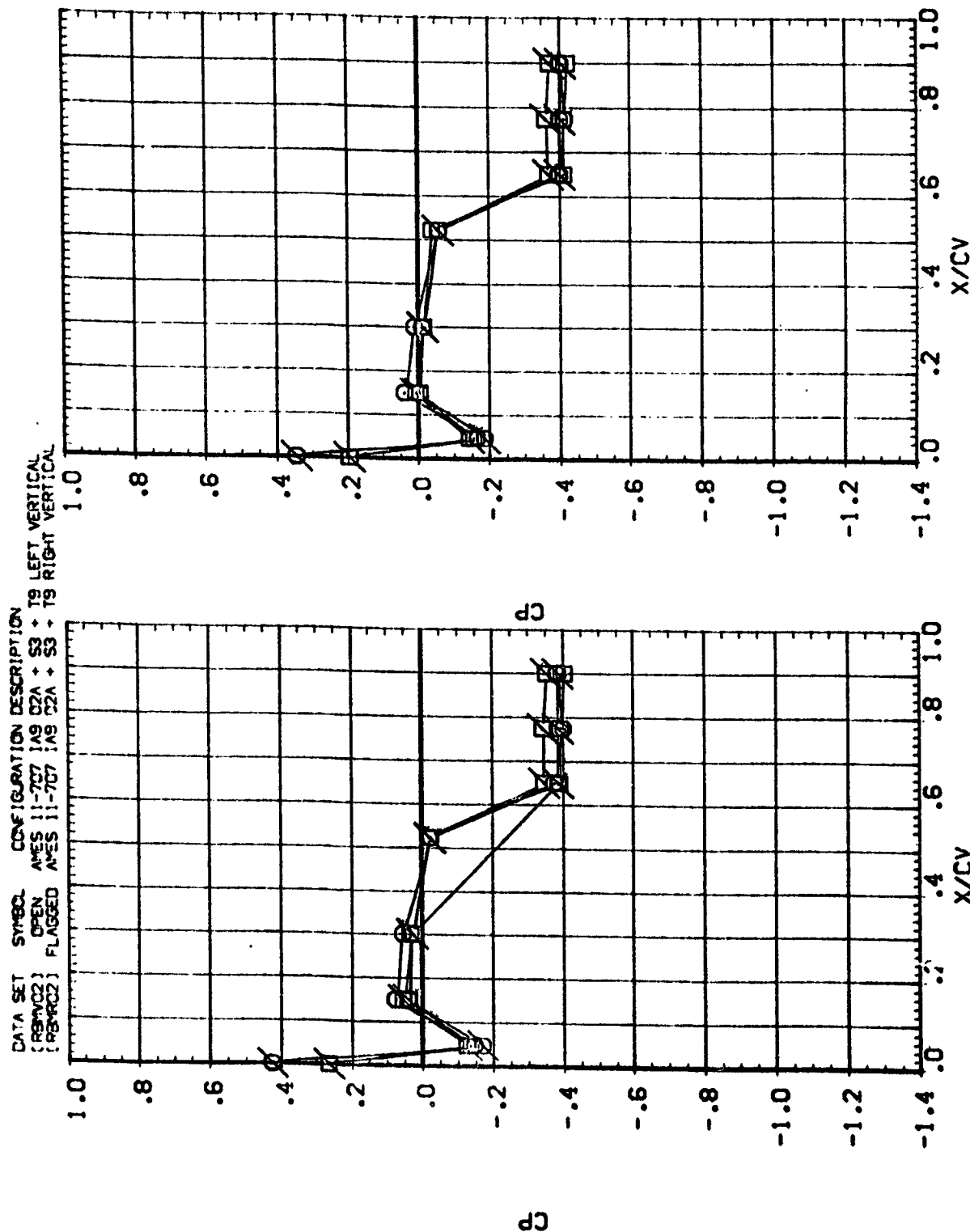
PARAMETRIC VALUES
BETAT .000 ORBINC .500
RUDDER .000 ELEVON .000
RUFLR .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(RBNV02) OPEN AMES 11-707 IAS C2A + S3 + T9 LEFT VERTICAL
(RBNV02) FLAGGED AMES 11-707 IAS C2A + S3 + T9 RIGHT VERTICAL



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/BV	ALPHAT	MACH	PARAMETRIC VALUES			
○	.840	3.960	1.401	BETAT	.000	CRBINC	.500
□	.925	7.990		RUDDER	.000	ELEVON	.000
				R.O.FLR	.000		



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

PARAMETRIC VALUES

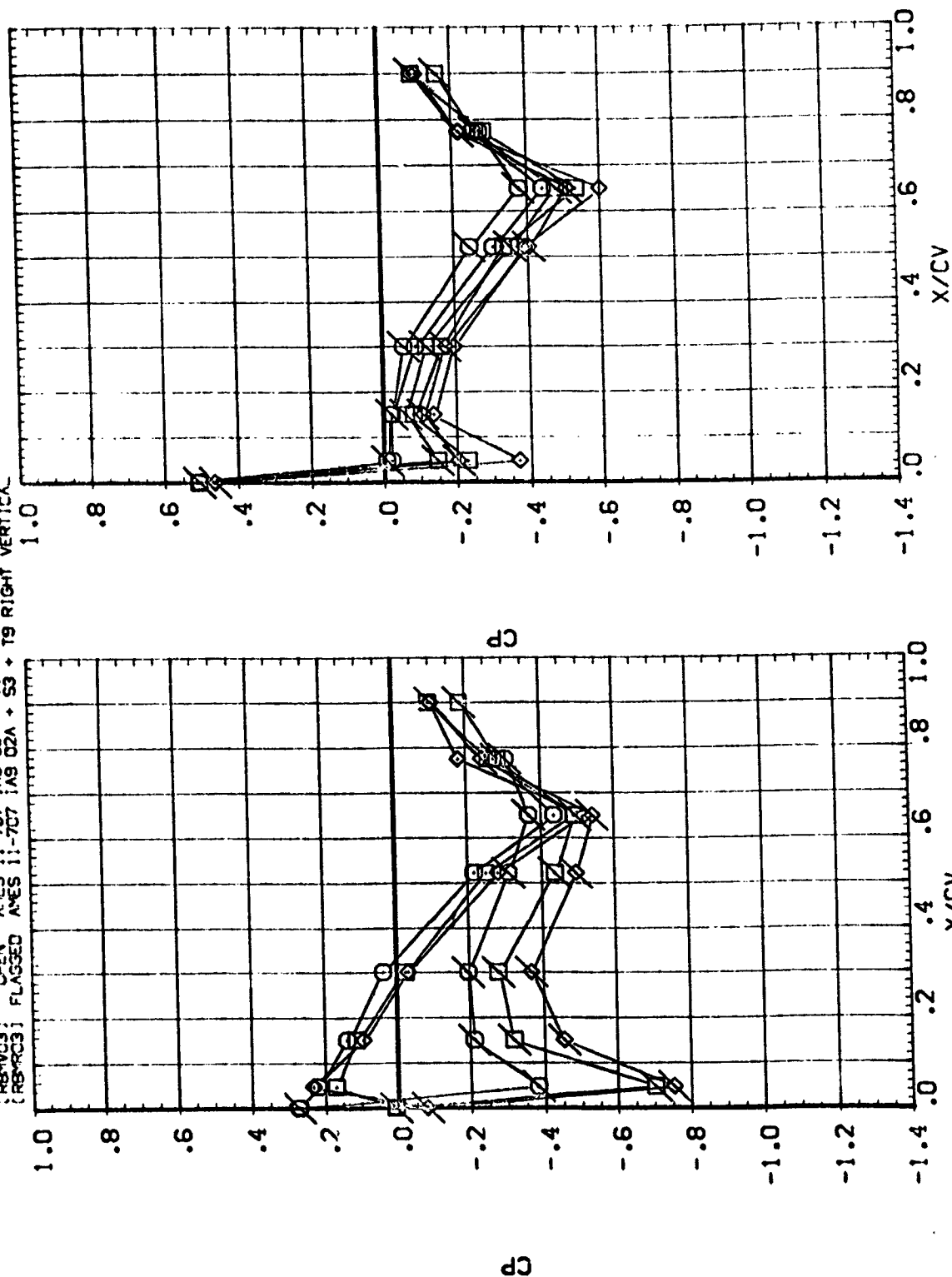
ALPHAT	-8.000	ORBNIC	.500
RJDER	.000	ELEVON	.000
RJFLR	.000		

SYMBOL Z/BV BETAT MACH

.158	-4.020	.599
.316	.020	
.600		

DATA SET SYMBOL CONFIGURATION DESCRIPTION

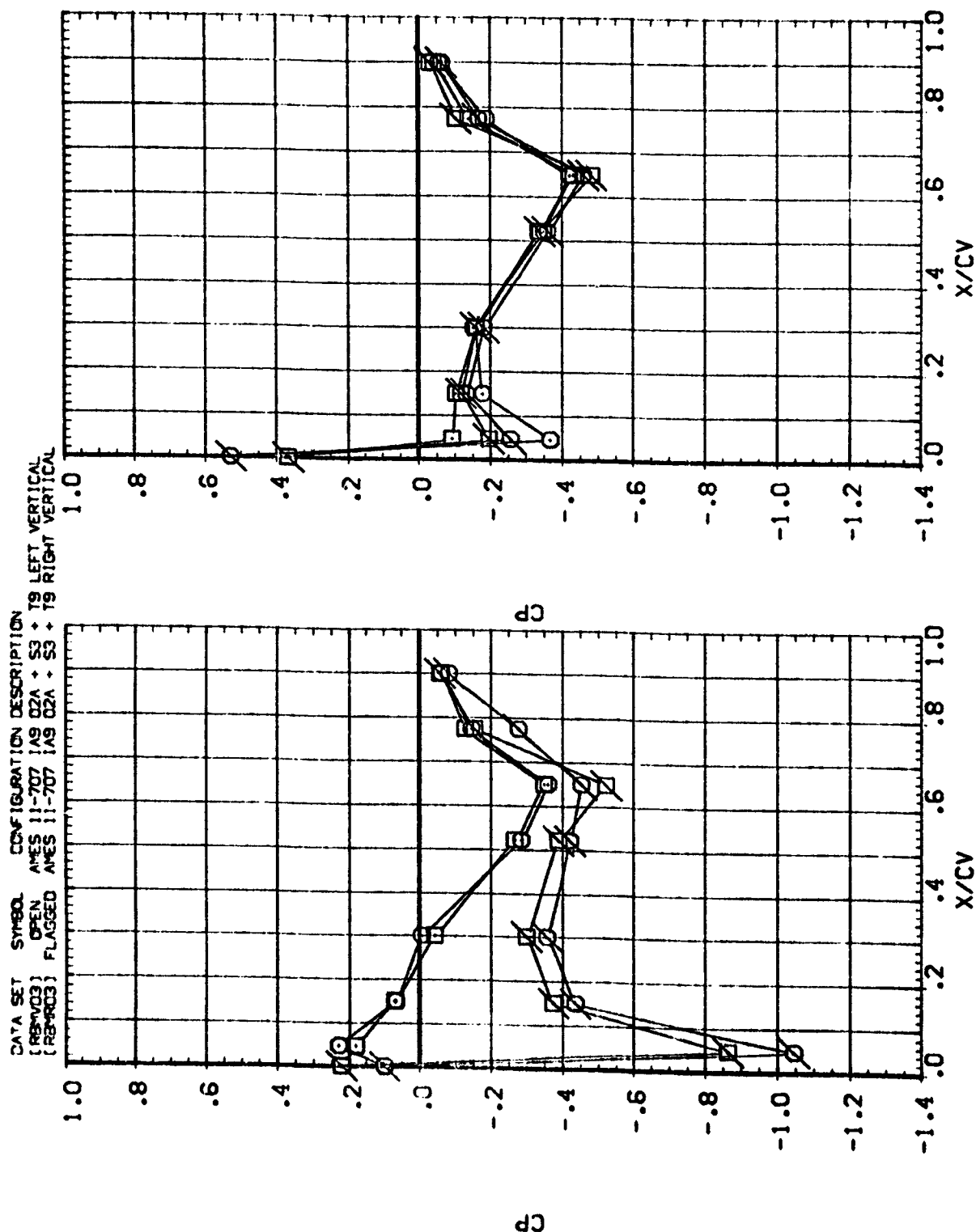
(RBV03)	OPEN	ANES 11-707	AS 02A + S3 + T9 LEFT VERTICAL
(RBV03)	FLAGGED	ANES 11-707	AS 02A + S3 + T9 RIGHT VERTICAL



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

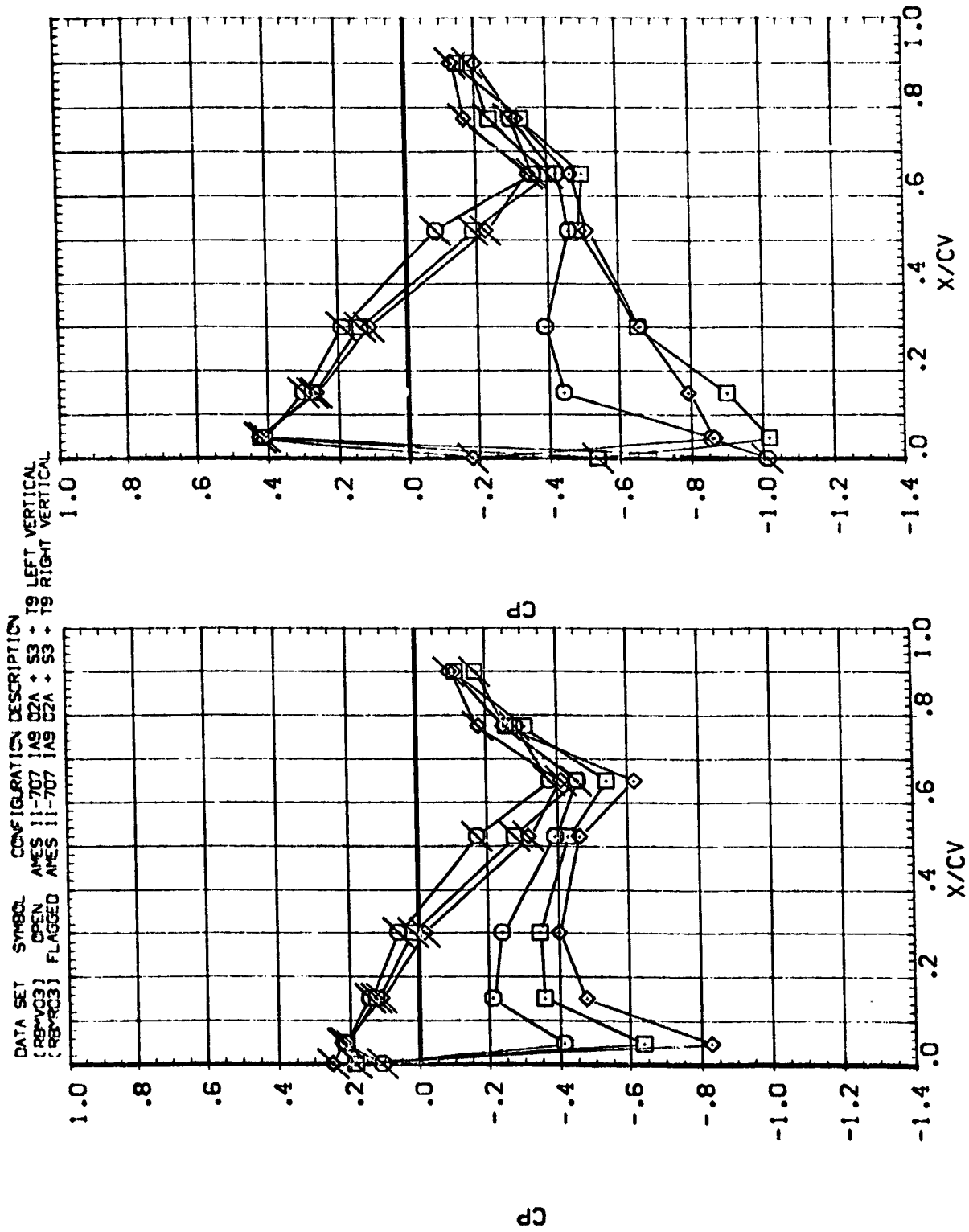
SYNCH Z/3V .84C .925
 BETAT -4.020 .020
 MACH .599

PARAMETRIC VALUES
 ALPHAT -8.000 ORBINC .500
 RUDDER .000 ELEVON .000
 RUOTLR .000



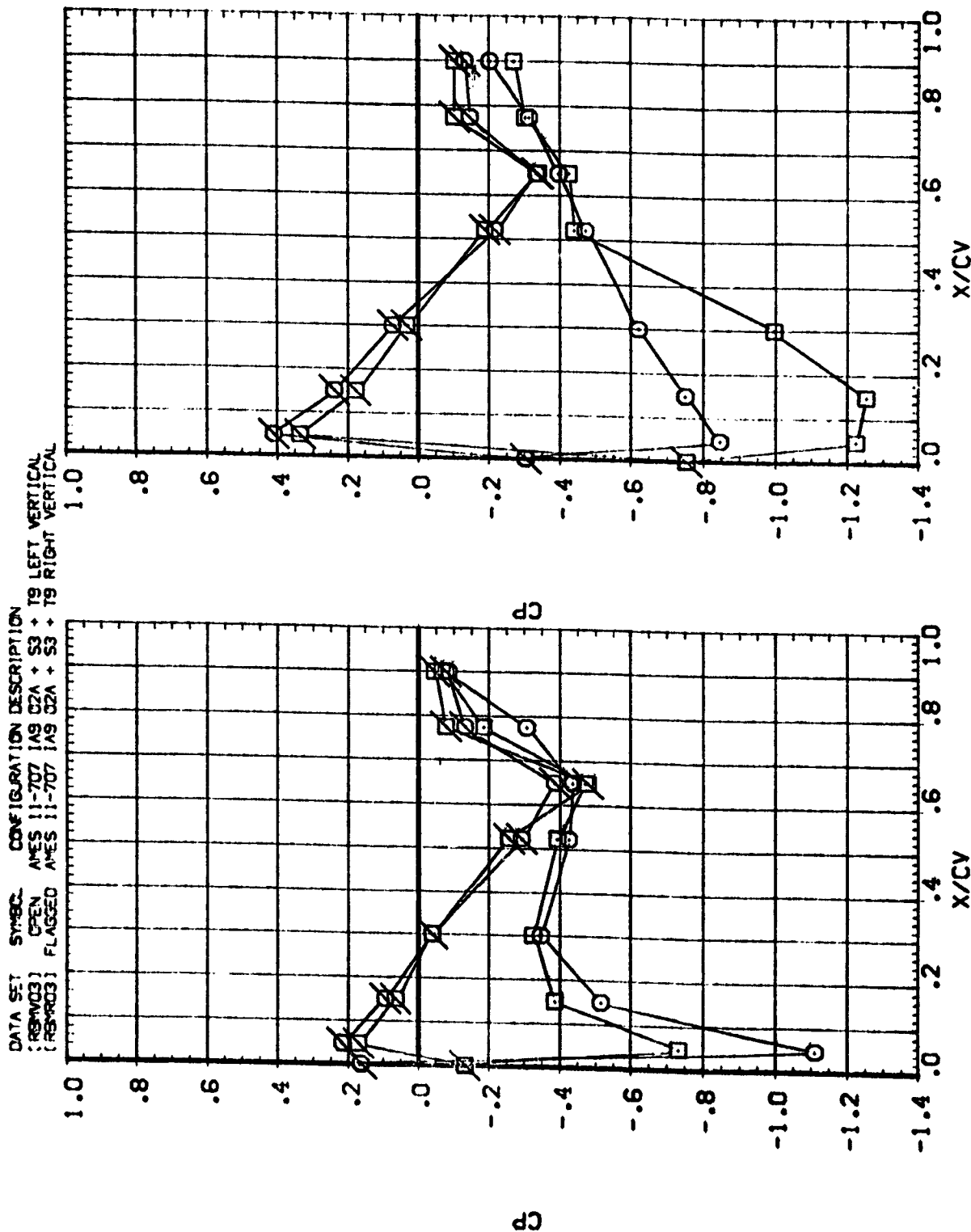
11

SYMBOL	Z/3V	BETAT	MACH	ALPHAT	PARAMETRIC VALUES
○	.158	4.100	.599	R000R	-8.000 0RB1NC .500
□	.316	8.180		R000R	.000 ELEVON .000
◇	.600			R000R	



SYMBOL Z/BV BETAT MACH
 .940 4.10C .599
 .925 8.18C

PARAMETRIC VALUES
 ALPHAT -8.000 ORBINC .500
 RUDDER .000 ELEVON .000
 RUJFLR .000



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

PARAMETRIC VALUES

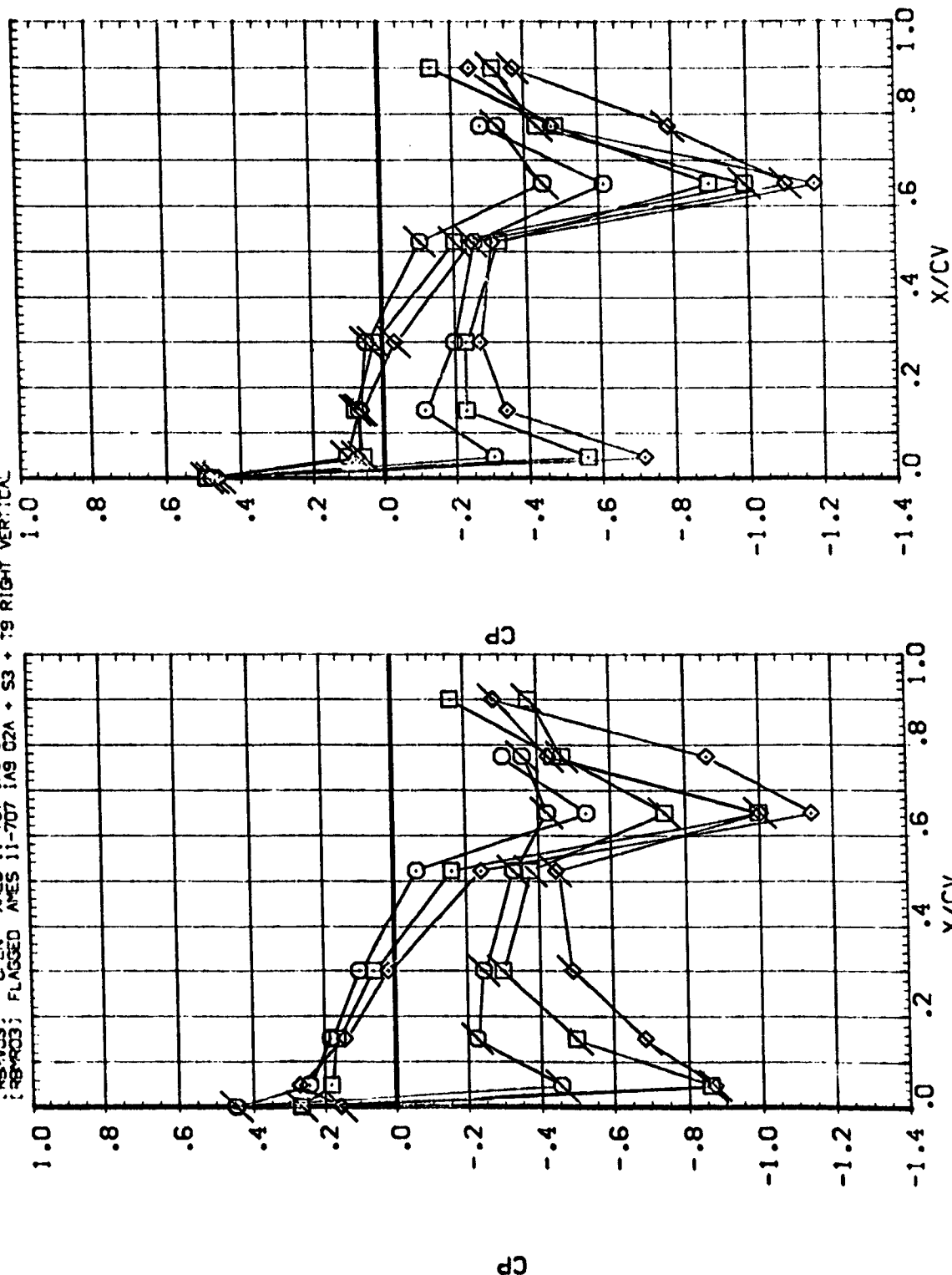
ALPHAT	-8.000	ORBITC	.500
RUDDER	.000	ELEVON	.000
RUCLFLR	.000		

SYMBOL Z/BV BETAT MACH

○	.158	-4.050	.901
□	.316	2.080	
◇	.600		

DATA SET SYMBOL CONFIGURATION DESCRIPTION

RBW03	OPEN	AVES 11-707	1A9 02A + S3 + T9 LEFT VERTICAL
RBW03	FLAGGED	AVES 11-707	1A9 02A + S3 + T9 RIGHT VERTICAL



PARAMETRIC VALUES

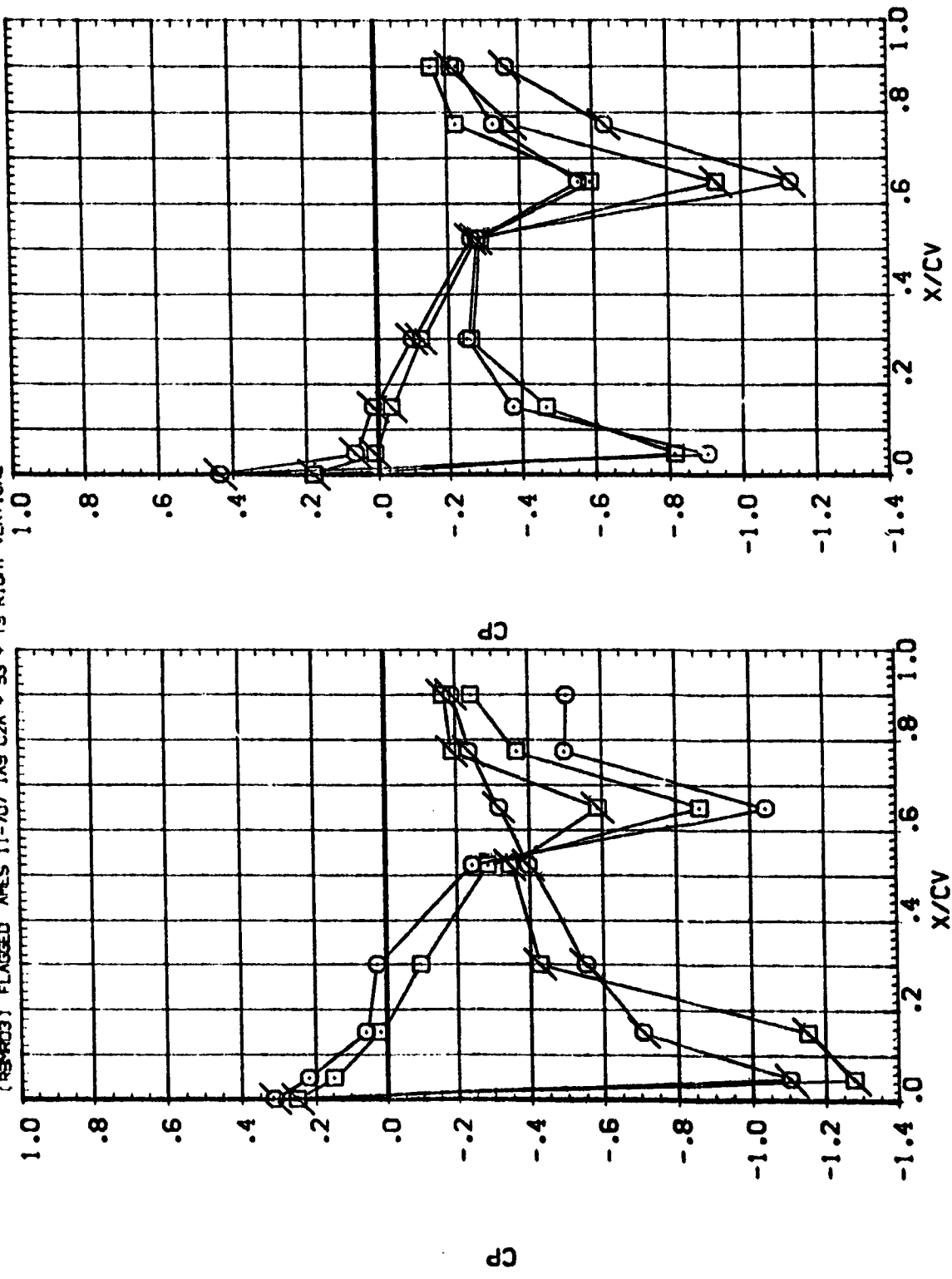
ALPHAT	-8.000	ORBNIC	.500
RUDR	.000	ELEVON	.000
RUDLR	.000		

SYNOPSIS

Z/BV	.84C	BETAT	-4.05C	MACH	.901
	.925		2.080		

DATA SET SYMBOL CONFIGURATION DESCRIPTION

RSW03	OPEN	ANES 11-707 1A9 C2A + S3 + T9 LEFT VERTICAL
RSW03	FLAGGED	ANES 11-707 1A9 C2A + S3 + T9 RIGHT VERTICAL

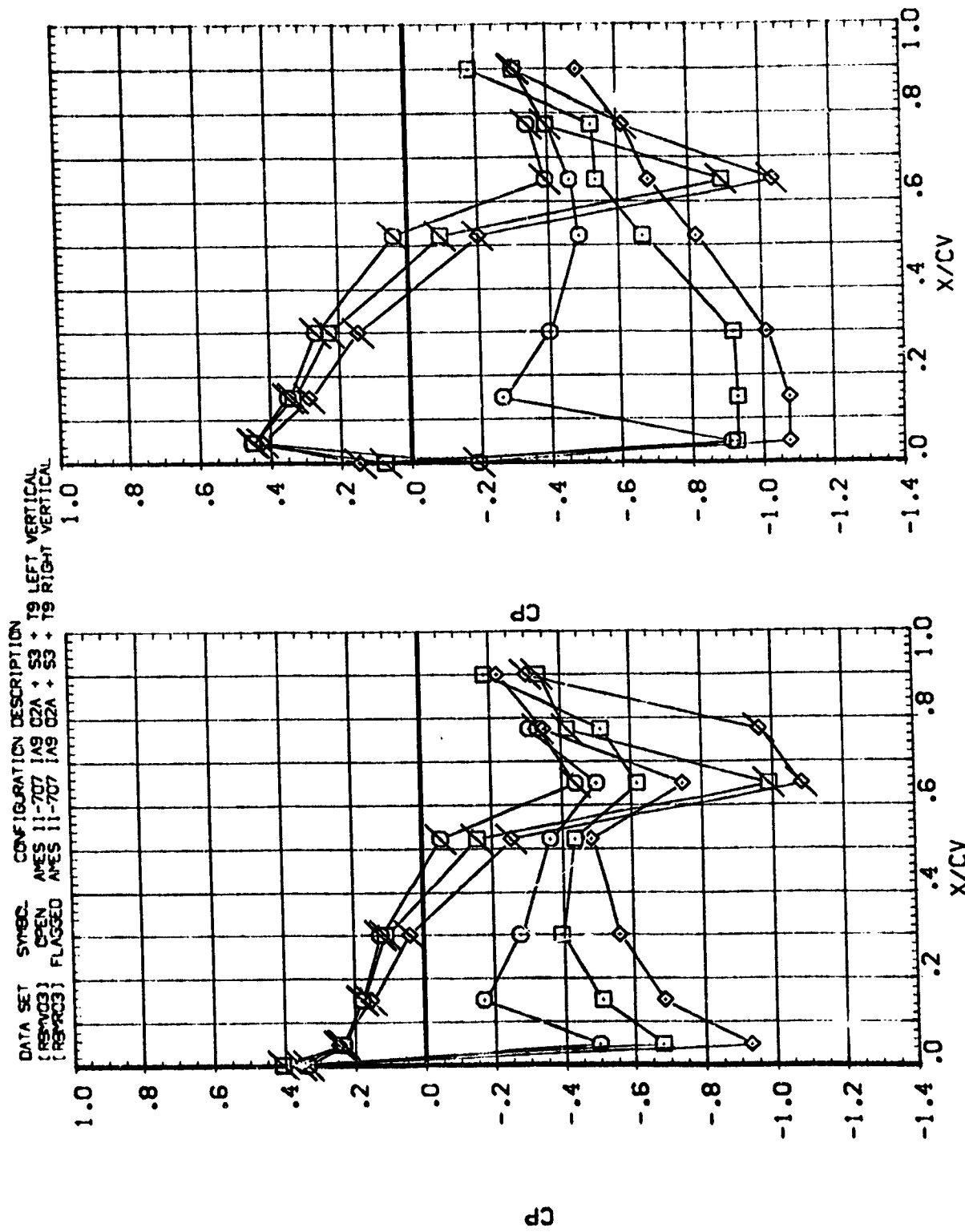


PARAMETRIC VALUES

ALPHAT	-8.000	ORBNIC	.500
RUDDER	.000	ELEVON	.000
RJFLR	.000		

SYMBOL

Z/BV	BETAT	MACH
.158	4.140	.901
.316	8.270	
.600		



SYMBOL Z/BV BETAT MACH

0.840 4.140 .901

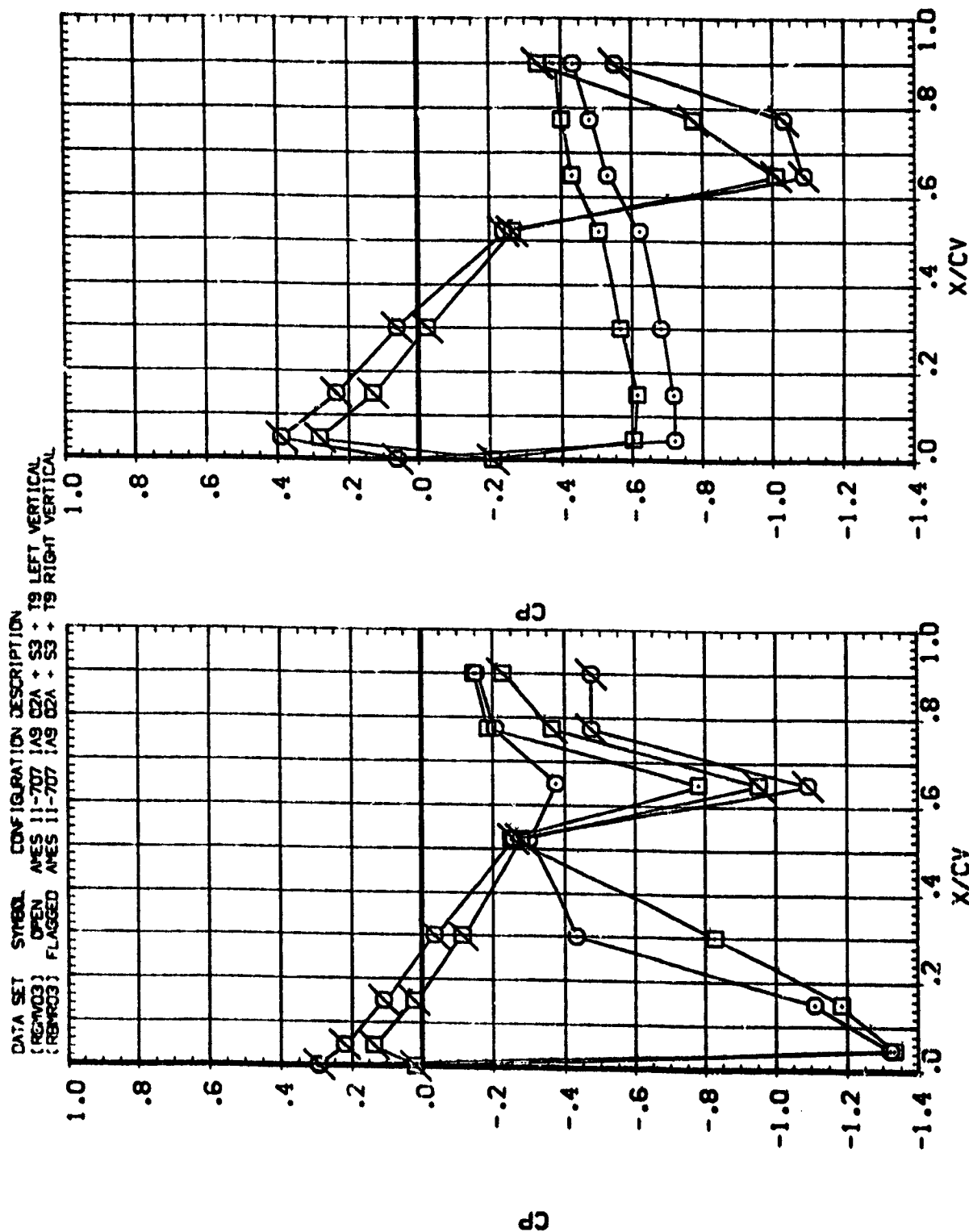
0.925 8.270

PARAMETRIC VALUES

ALPHAT -8.000 DRBINC .500

RUDDER .000 ELEVON .000

RUDFLR .000



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

PARAMETRIC VALUES

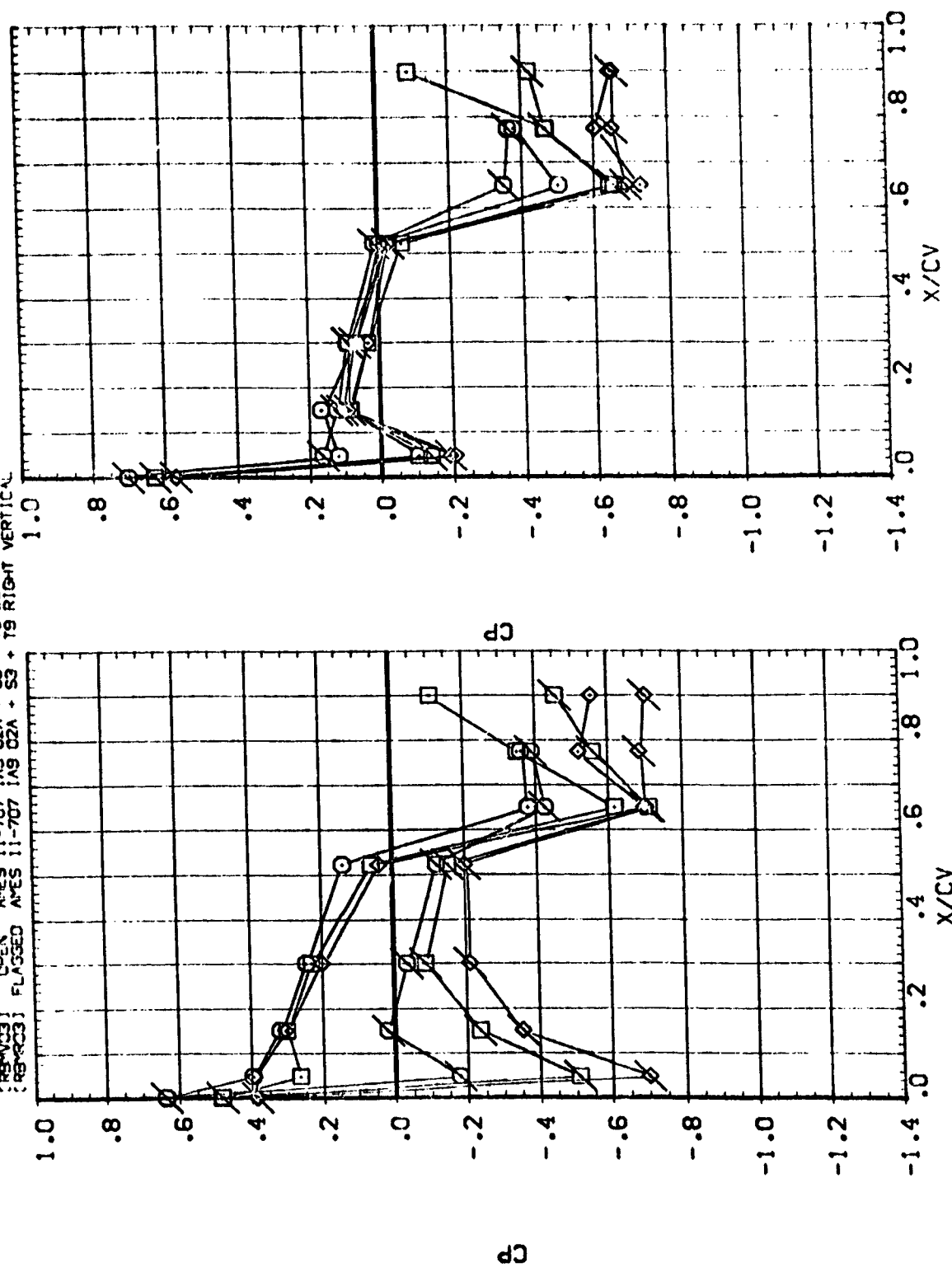
ALPHAT	-8.000	ORGINC	.500
RUOER	.000	ELEVON	.000
RJCLR	.000		

SYMBOL

Z/SV	BETA	MACH
.158	-4.080	1.101
.316	.020	
.600		

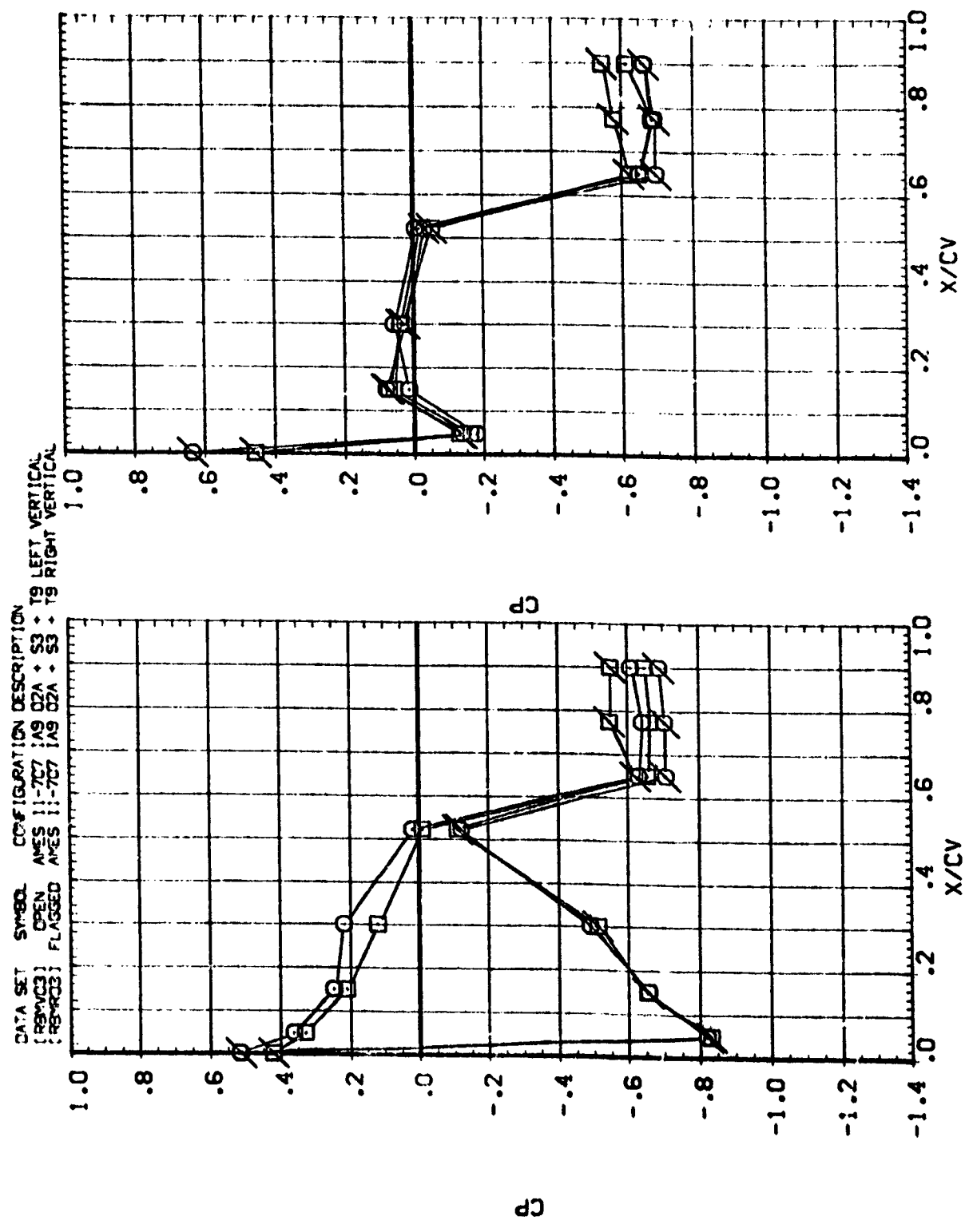
DATA SET SYMBOL CONFIGURATION DESCRIPTION

RBW03	OPEN	AMES 11-707 [A9 OZA + S3 + T9 LEFT VERTICAL
RBW03	FLASSED	AMES 11-707 [A9 OZA + S3 + T9 RIGHT VERTICAL



SYNCH Z/BV BETA MACH
 .840 -4.080 1.10:
 .925 .020

PARAMETRIC VALUES
 -8.000 CSBINC .500
 .000 ELEVN .000
 ALPHAT
 RUDER
 RUDLR

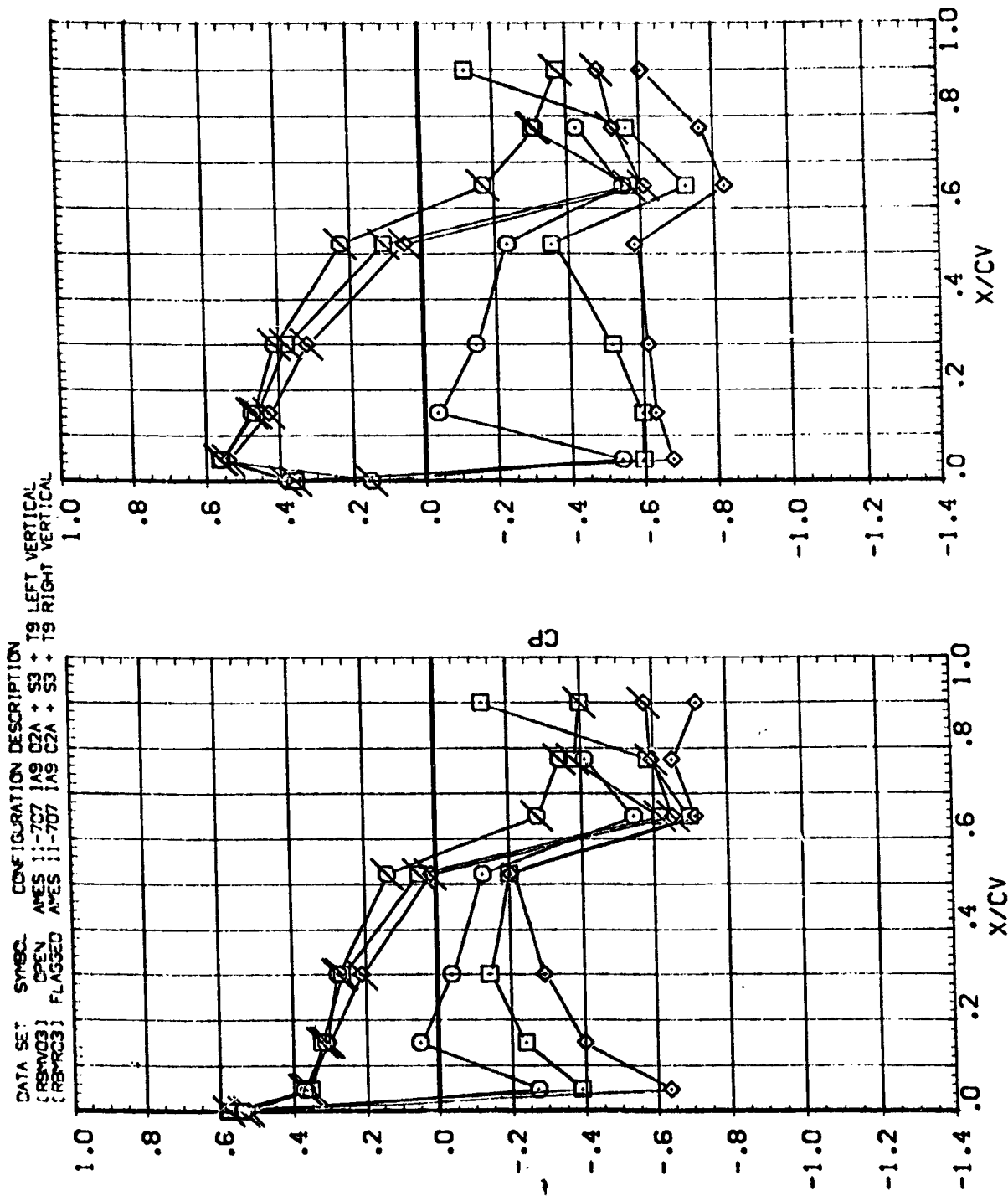


CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

PARAMETRIC VALUES
 -8.000 ORBINC .500
 .000 ELEVON .000

ALPHAT
 RUDDER
 RUDFLR

SYNCH Z/BV BETAT MACH
 .158 4.160 1.10:
 .316 7.800
 .600

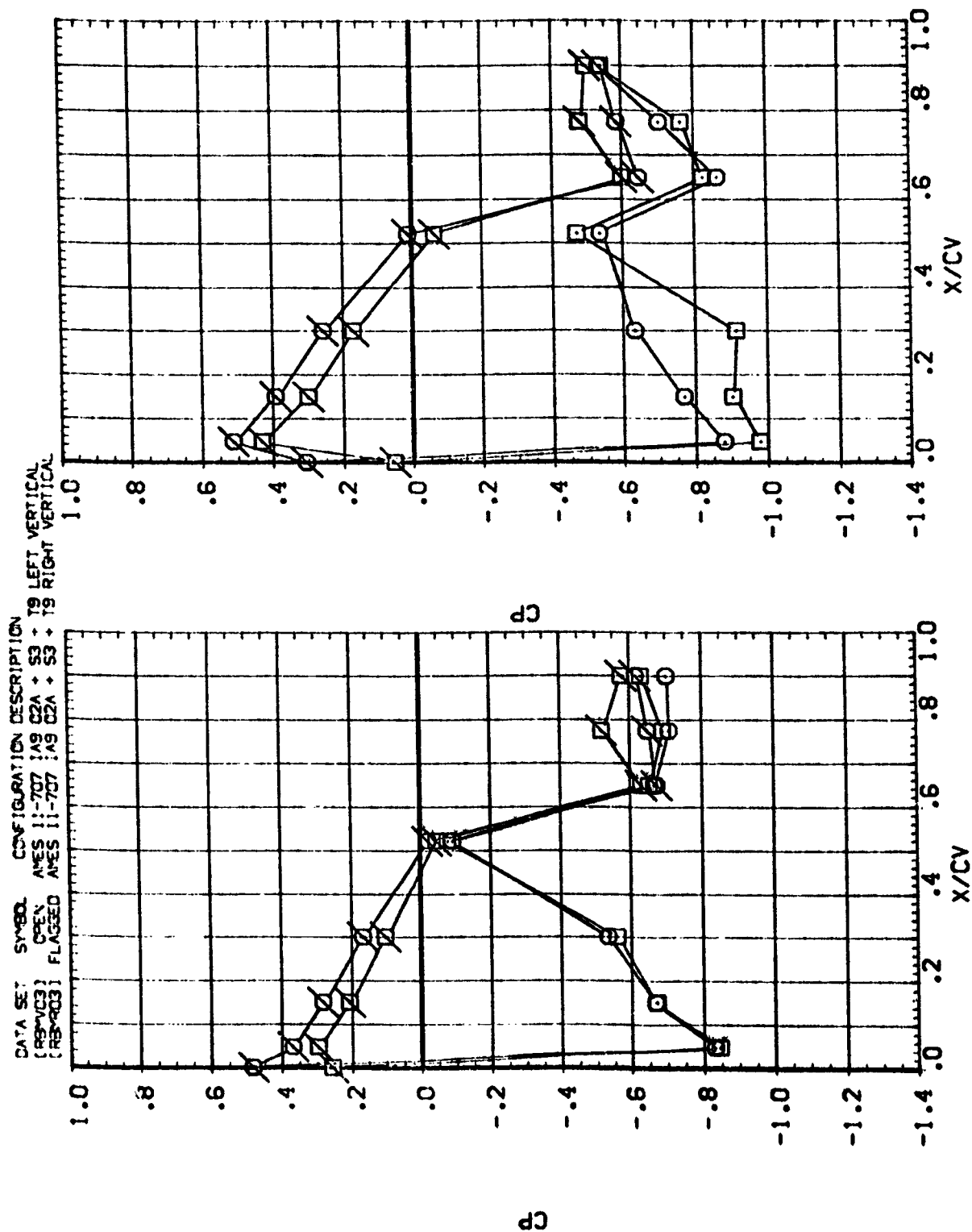


CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

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SYMBOL Z/BV BETA* MACH
 .94C 4.160 1.101
 .925 7.800

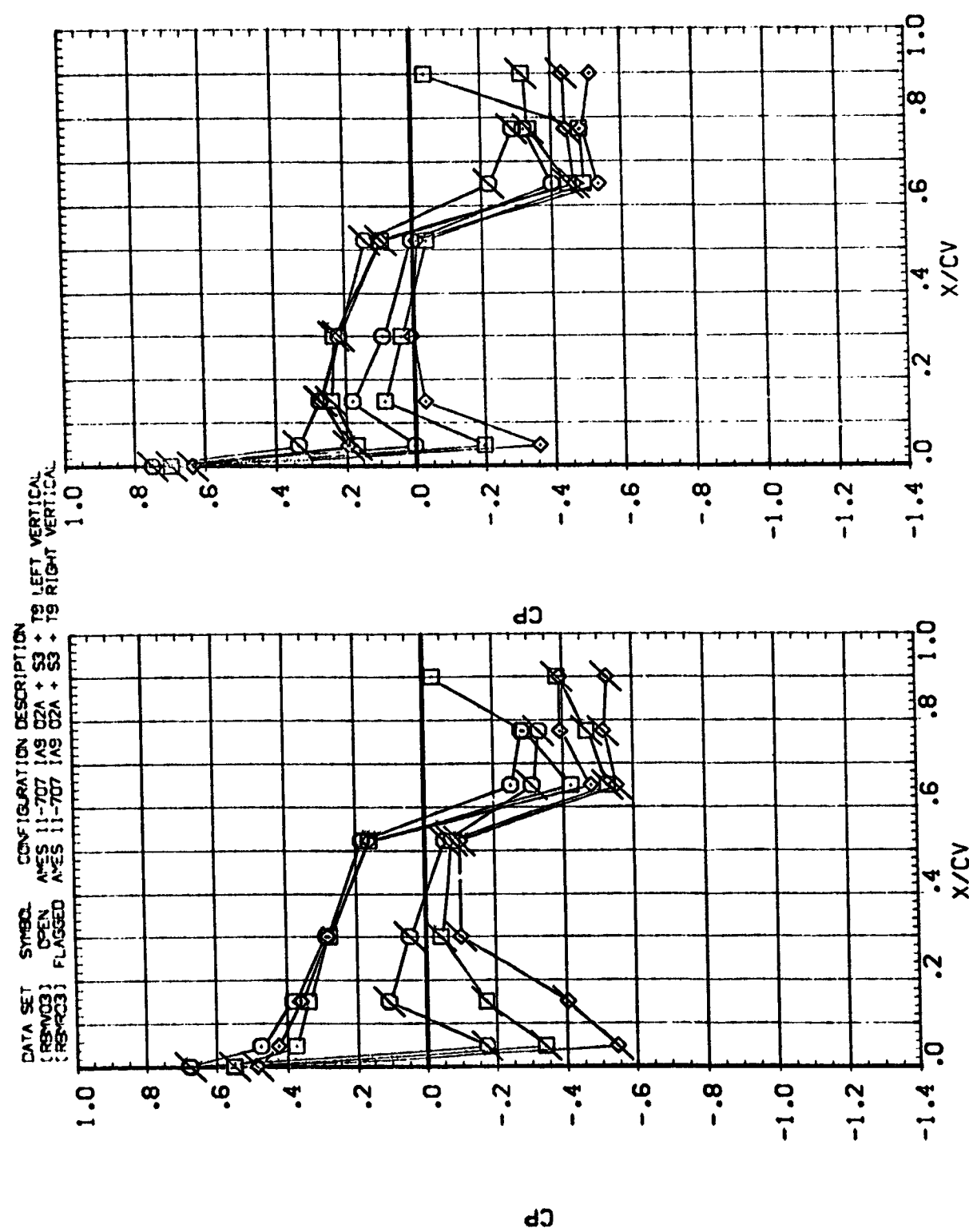
PARAMETRIC VALUES
 ALPHAT -8.000 CRBTNC .500
 RUDDER .000 ELEVON .000
 RUOFLR .000



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL Z/BV BETA* MACH
 .158 -4.050 1.248
 .316 2.080
 .600

PARAMETRIC VALUES
 ALPHAT -8.000 ORBINC .500
 RUDDER .000 ELEVON .000
 RUDDLR .000



SYMBOL Z/BV BETA* MACH

0.84C -4.05C 1.24B

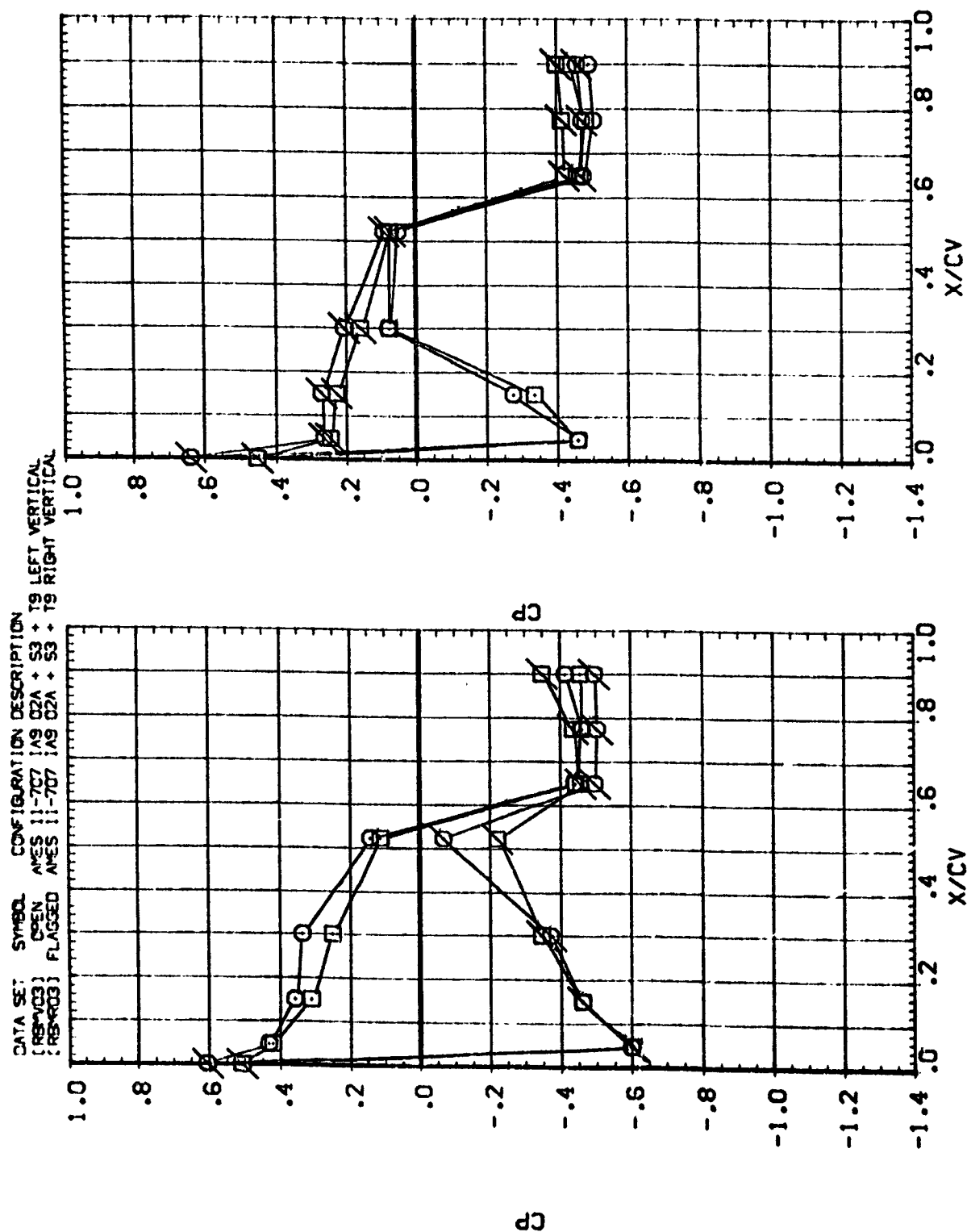
0.925 2.08C

PARAMETRIC VALUES

ALPHAT -8.000 CRBINC .50C

RUDDER .000 ELEVON .000

RUDFLR .000



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL
 O
 X
 □
 ◇

Z/BV .58
 .316
 .600

BETA 4.140
 8.250

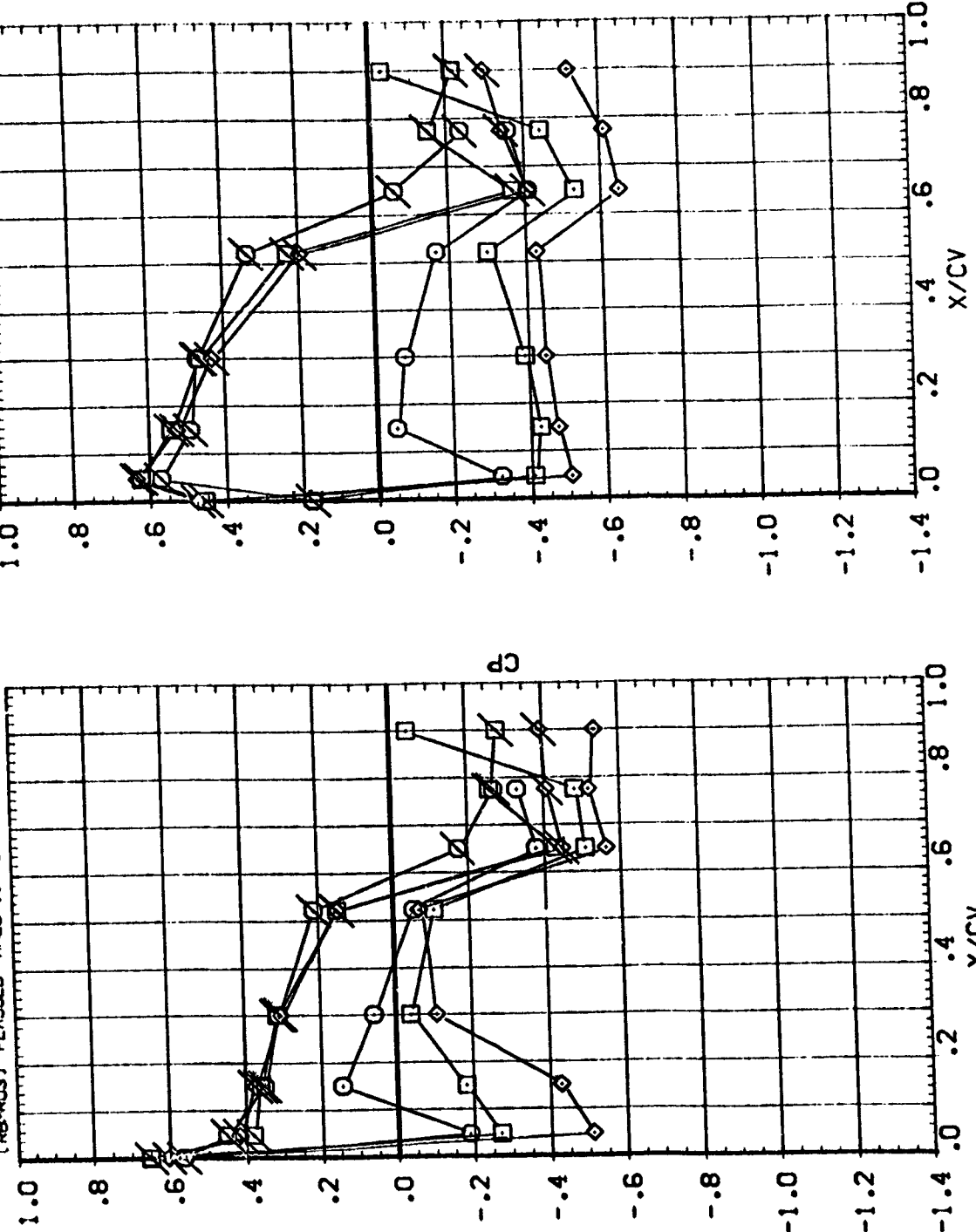
MACH 1.248

ALPHA
 -8.000
 .000
 .000

ORBITAL
 ELEVON
 .000
 .000

PARAMETRIC VALUES

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RBMV03) ANES 11-707 1A9 02A + S3 + T9 LEFT VERTICAL
 (RBMV03) ANES 11-707 1A9 02A + S3 + T9 RIGHT VERTICAL

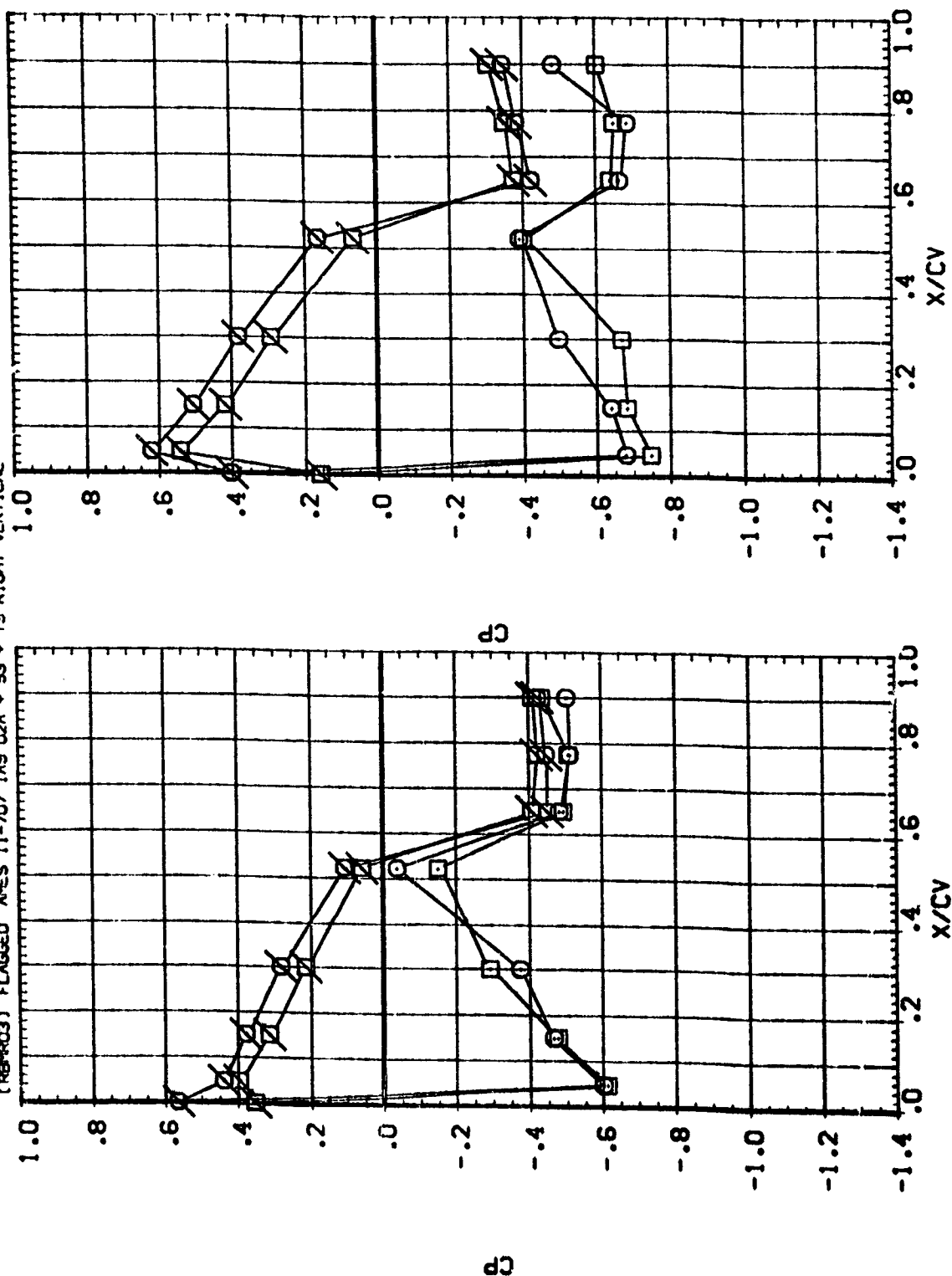


CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYNCS Z/BV .843 .925
 BETAT 4.140 8.250
 MACH 1.248

PARAMETRIC VALUES
 ALPHAT -8.000
 RUDDER .000
 RJDFLR .000
 ORBINC .500
 ELEVON .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (REMOVED) OPEN ASES 11-707 1A9 02A + S3 + T9 LEFT VERTICAL
 (REMOVED) FLAGGED ASES 11-707 1A9 02A + S3 + T9 RIGHT VERTICAL



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

PARAMETRIC VALUES

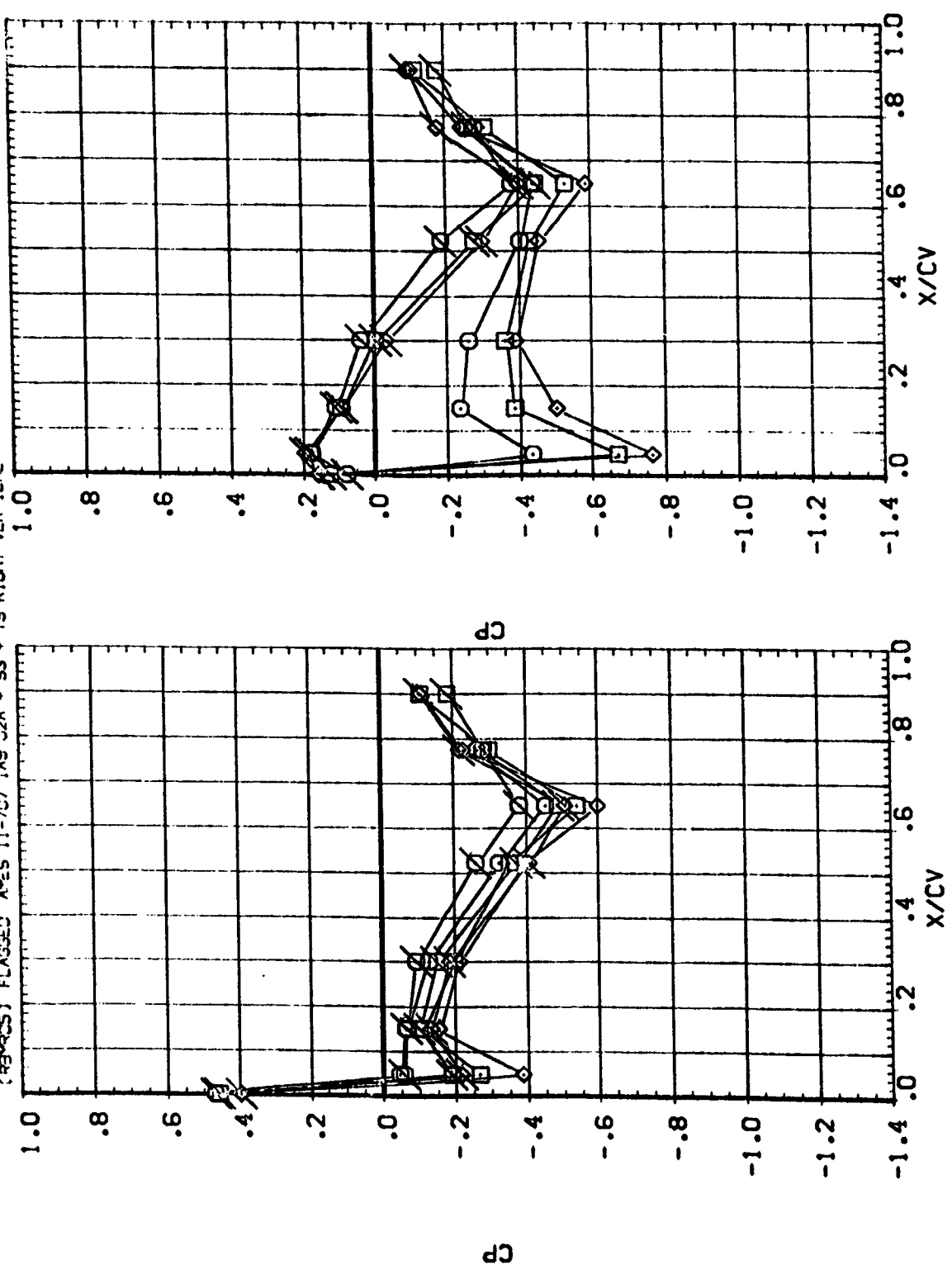
ALPHAT	-4.000	CRB:NC	.500
RDOOR	.000	ELEVON	.000
RDOFLR	.000		

SYMBOL

Z/BN	.150	BETAT	.020	MACH	.600
	.316		4.08C		
	.600				

DATA SET SYMBOL CONFIGURATION DESCRIPTION

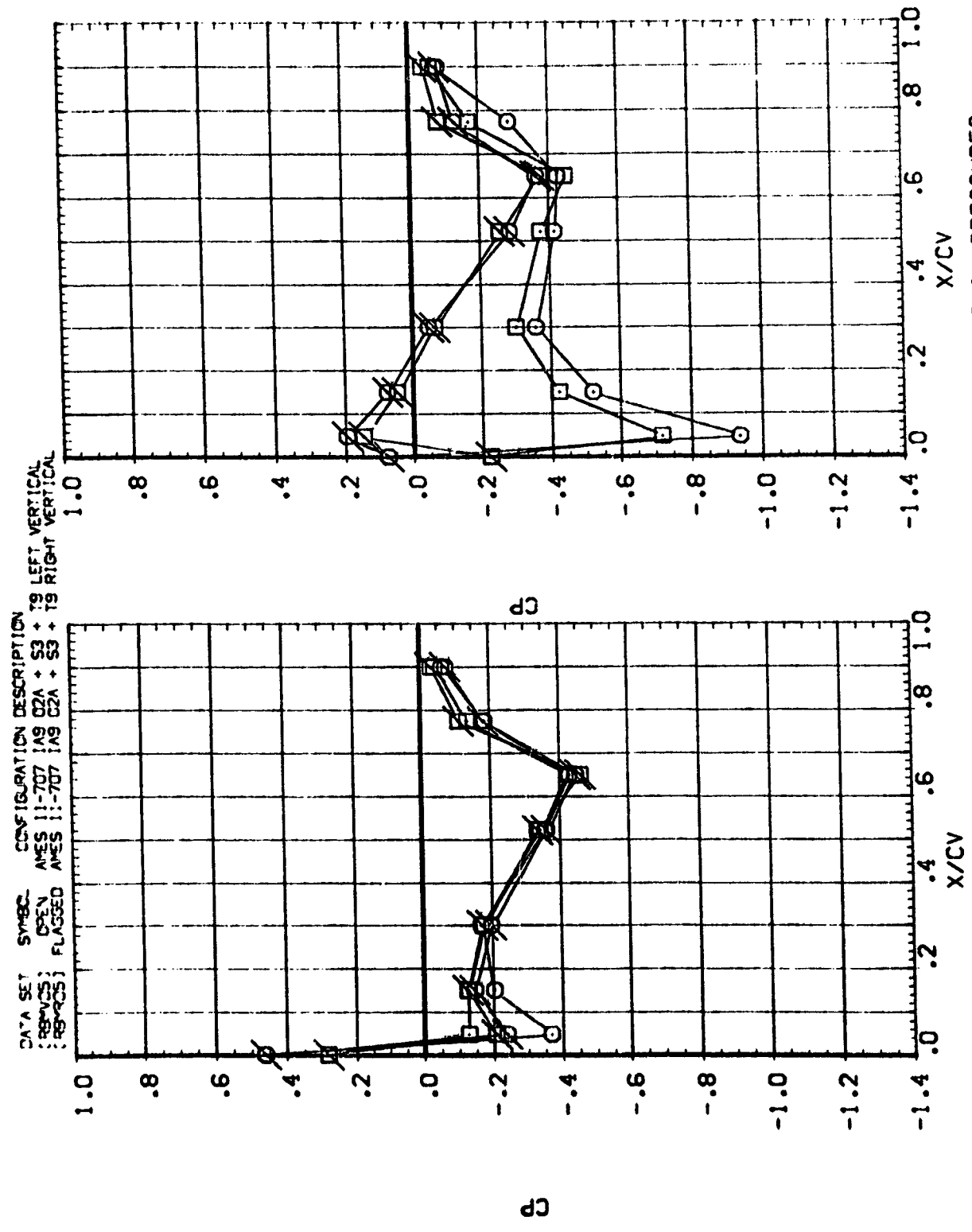
(REMOVED)	OPEN	AMES 11-707 1A9 02A + S3 + T9 LEFT VERTICAL
(REMOVED)	FLAGGED	AMES 11-707 1A9 02A + S3 + T9 RIGHT VERTICAL





SYMBOL Z/BV BETA* MACH
O .84C .070 .600
I .925 4.08C

PARAMETRIC VALUES
ALPHAT -4.000 ORBLINC .500
R/CORR .000 ELEVON .000
R/CFLR .000





SYMBOL
O
◇

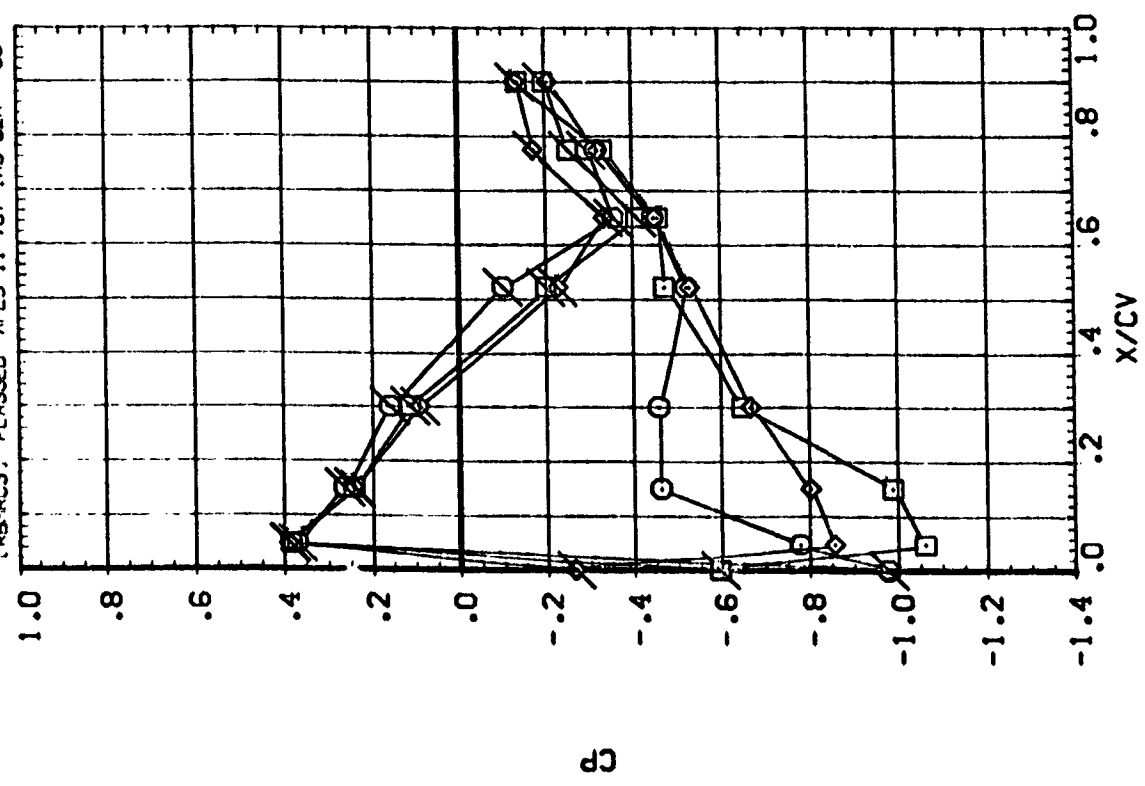
Z/BV
.158
.315
.600

BETAT
8.150

MACH
.600

PARAMETRIC VALUES
ALPHAT
-4.000
RUDDER
.000
RUDFLR
.000
CRB:NC
.500
ELEVON
.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(RSMVCS) OPEN AMES 11-707 1A9 C2A + S3 + T9 LEFT VERTICAL
(RSMVCS) FLAGGED AMES 11-707 1A9 C2A + S3 + T9 RIGHT VERTICAL



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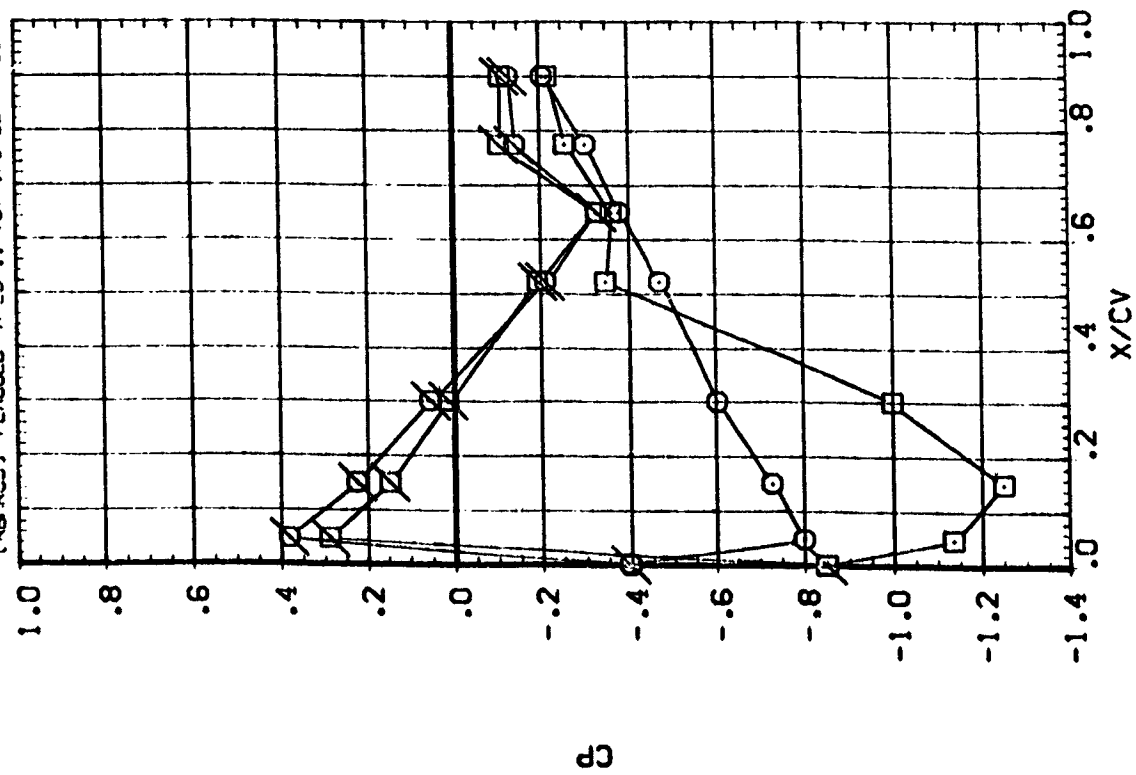
SYMBOL Z/BV .840 .925

BETA 8.150

MACH .600

PARAMETRIC VALUES
ALPHAT -4.000 ORBINC .500
RUDDER .000 ELEVON .000
RUDDLR .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
[REMOVED] OPEN ANES 1:-707 [AS 02A + S3 + T9 LEFT VERTICAL
[REMOVED] FLAGGED ANES 1:-707 [AS 02A + S3 + T9 RIGHT VERTICAL



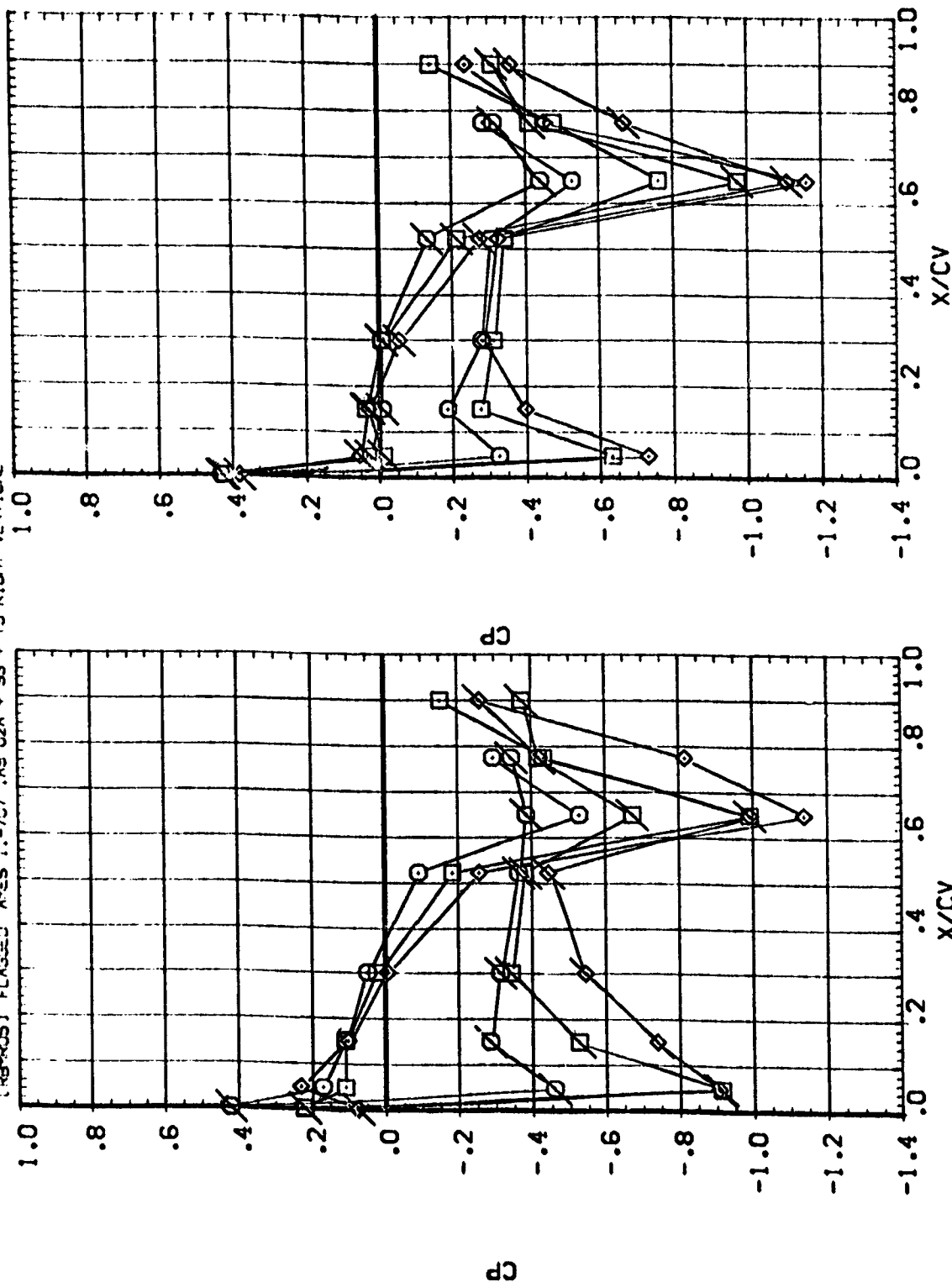
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

10-14

PARAMETRIC VALUES
 ALPHAT -4.000
 RUDDER .000
 RUDEL .000
 ORBINC .500
 ELEVON .000

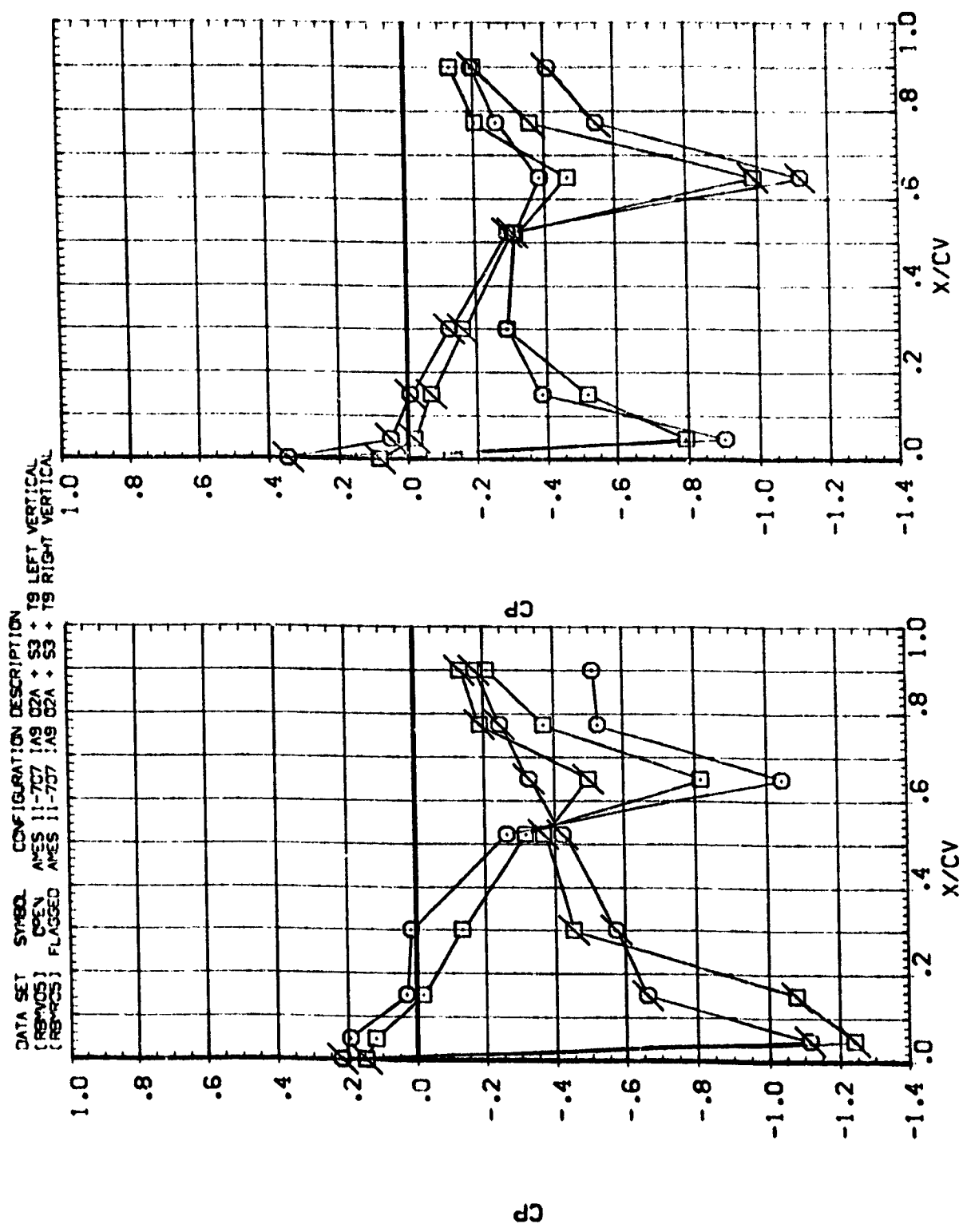
SYMBOL Z/BV BETA* MACH
 110 .58 -4.070 .933
 111 .316 2.070
 112 .600

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (REMOVED) OPEN ASES 11-707 :AS C2A + S3 + T9 LEFT VERTICAL
 (REMOVED) FLAGGED ASES 11-707 :AS C2A + S3 + T9 RIGHT VERTICAL



==

SYMBOL Z/BV BETA' MACH
 O .84C .925 -4.070 .903
 ALPHAAT RUDDER RUDFLR
 PARAMETRIC VALUES
 -4.000 ORIGINC .500
 .000 ELEVON .000



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

PARAMETRIC VALUES

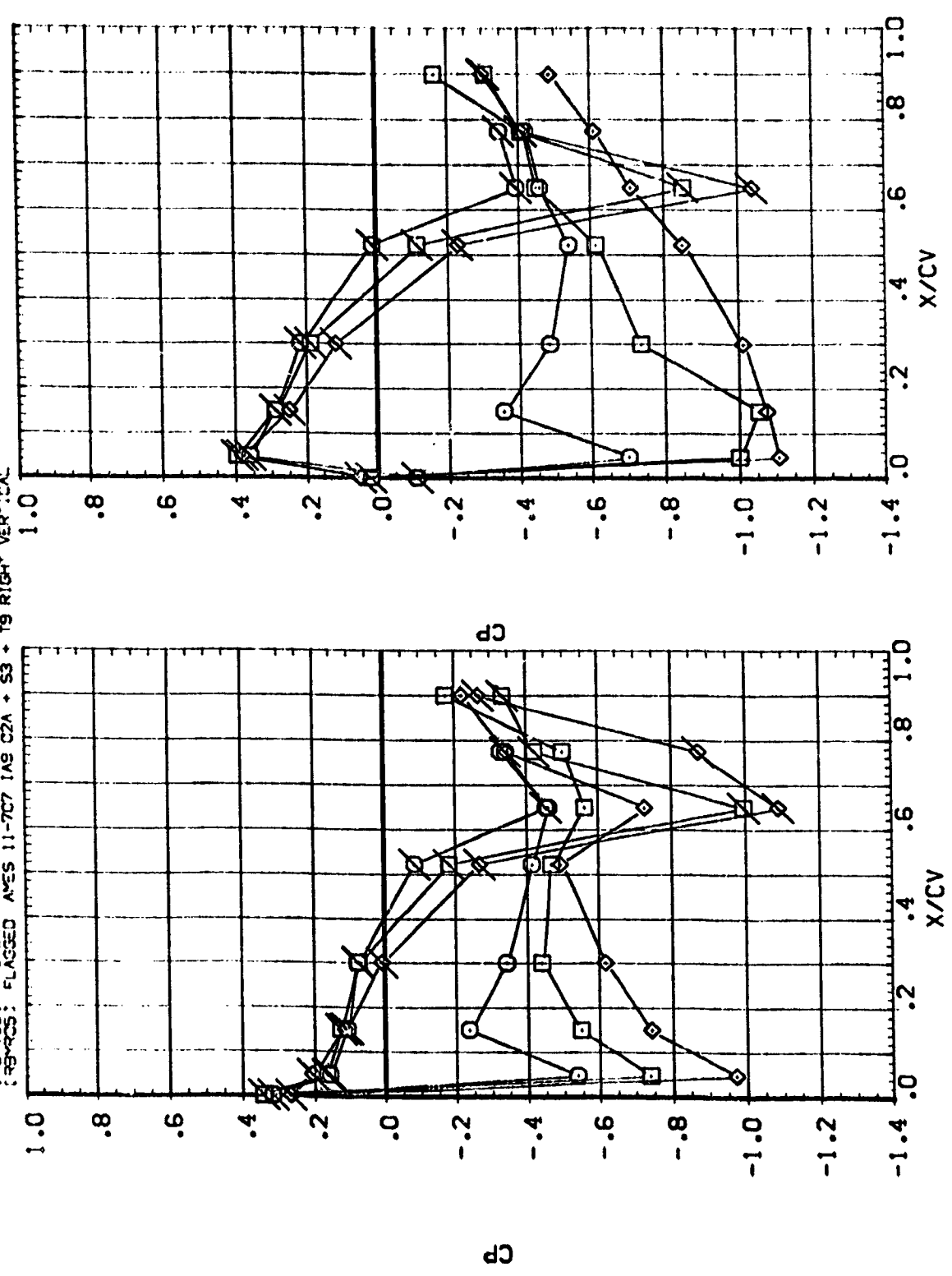
ALPHAT	-4.000	ORBITC	.500
RUDDER	.000	ELEVON	.000
RJOFIR	.000		

SYMBOL Z/BV BETAT MACH

○	.158	4.120	.903
□	.316	8.230	
◇	.600		

DATA SET SYMBOL CONFIGURATION DESCRIPTION

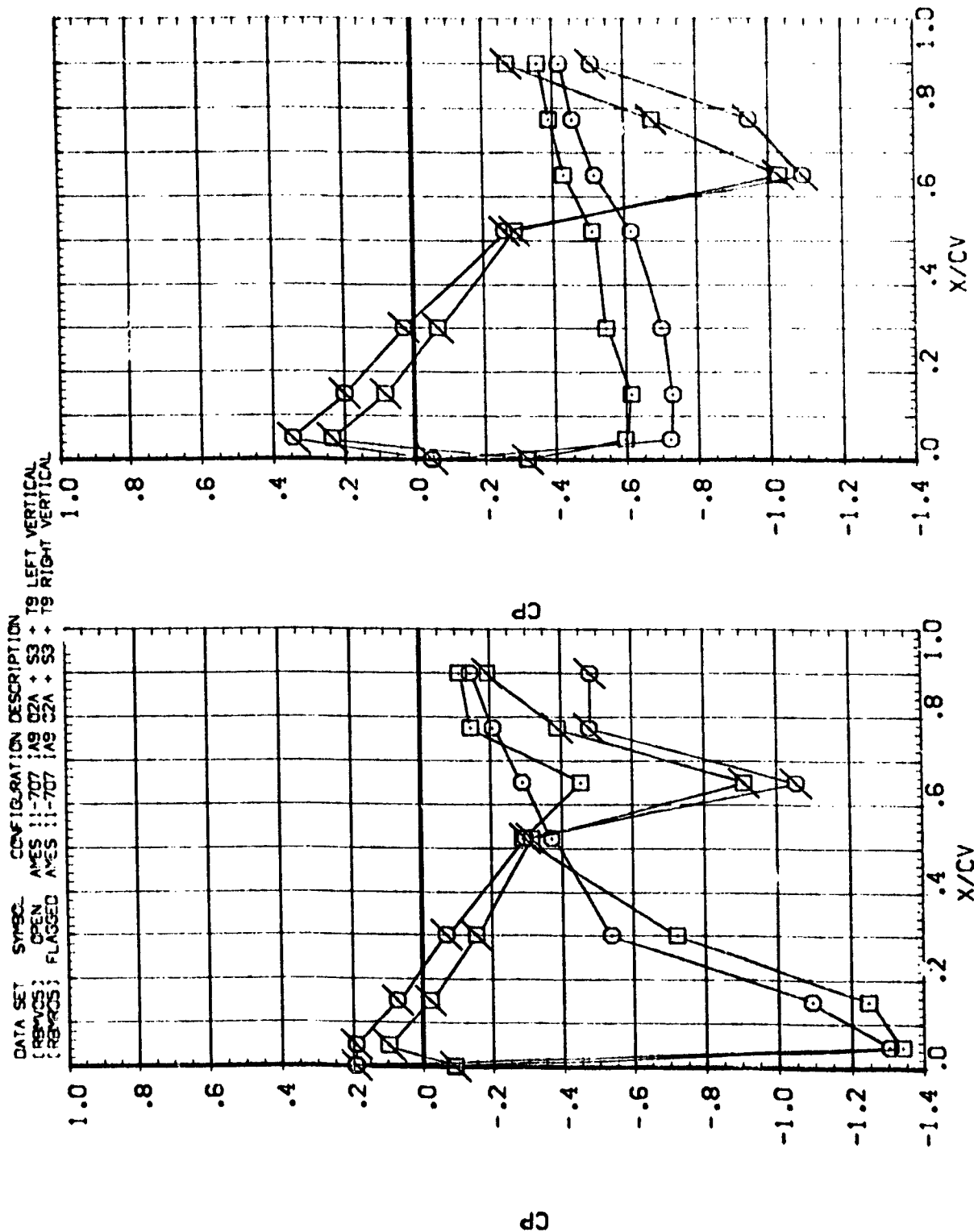
REMOVED	OPEN	AMES 11-707 IAS C2A + S3 + T9 LEFT VERTICAL
REMOVED	FLAGGED	AMES 11-707 IAS C2A + S3 + T9 RIGHT VERTICAL



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SYMBOL Z/BV BETAT MACH
 0 1 0.840 4.120 .903
 1 1 0.925 8.230

PARAMETRIC VALUES
 ALPHAAT -4.000 ORBINC .500
 RUDDER .000 ELEVON .000
 RUDDFLR .000



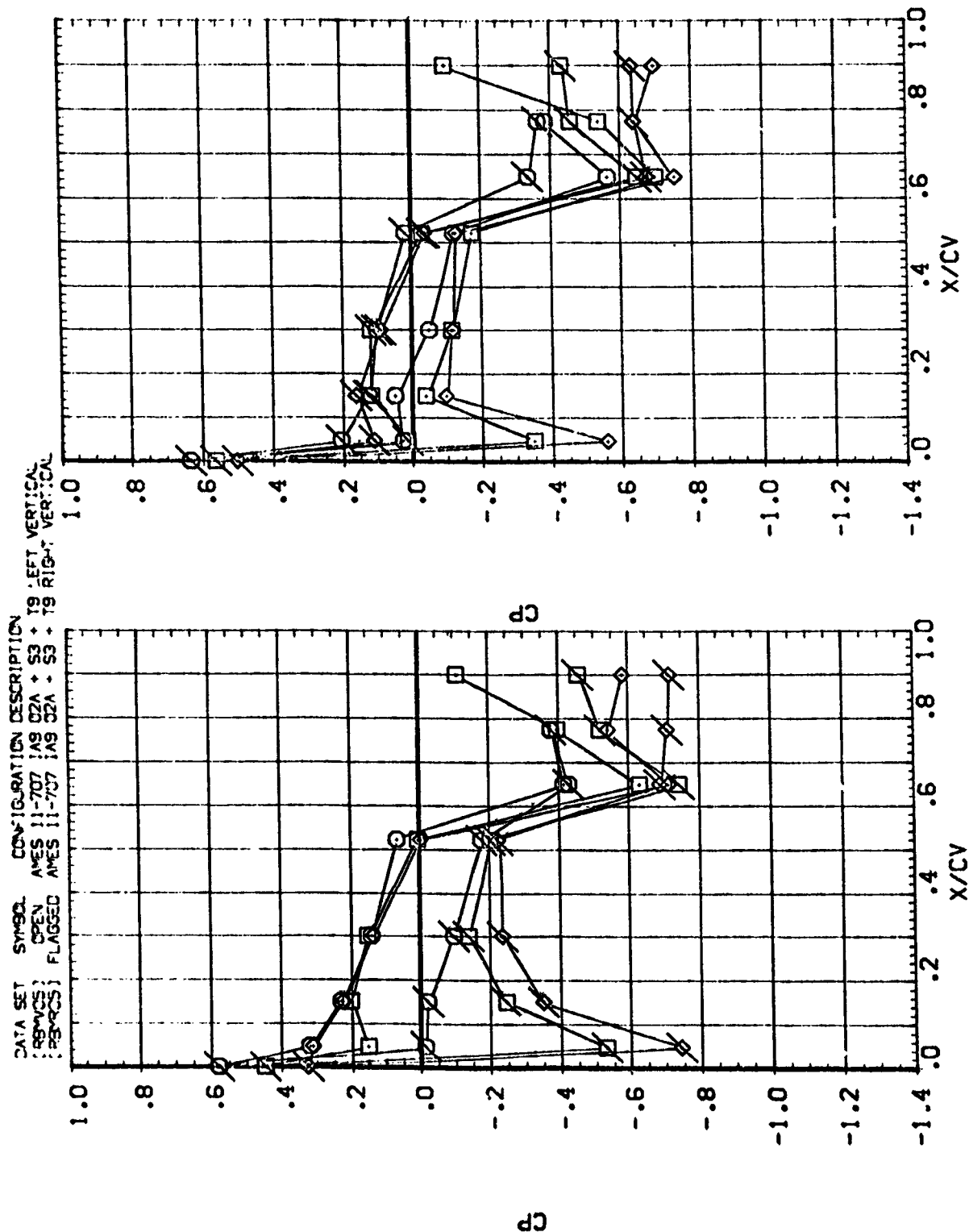
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

PARAMETRIC VALUES

ALPHAT	-4.000	ORBITIC	.500
RUDDER	.000	ELEVCH	.000
RJDELIR	.000		

SYMBOL

Z/BV	BETAT	MACH
.150	-4.080	1.100
.316	2.080	
.600		



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES



SYMBOL
()

Z/BV
.84C
.925

BETAT
-4.080
2.080

MACH
1.00

PARAMETRIC VALUES
ALPHAT
RUDDER
RUDFLR

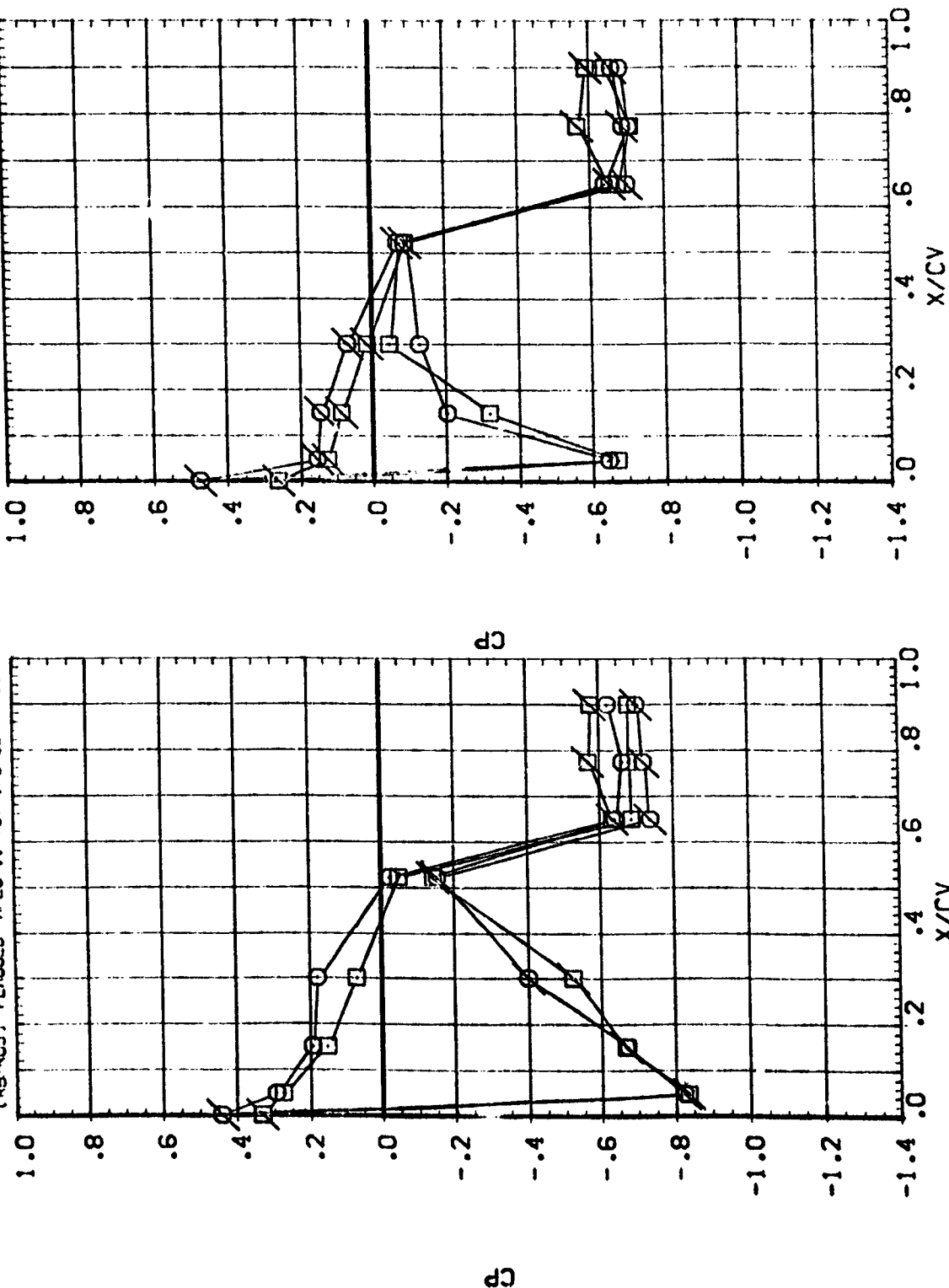
-4.000
.000
.000

ORBITC
ELEVON

.500
.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RMVUS) OPEN ANES 11-707 1A9 C2A + S3 + T9 LEFT VERTICAL
(RBMVUS) FLAGGED ANES 11-707 1A9 C2A + S3 + T9 RIGHT VERTICAL



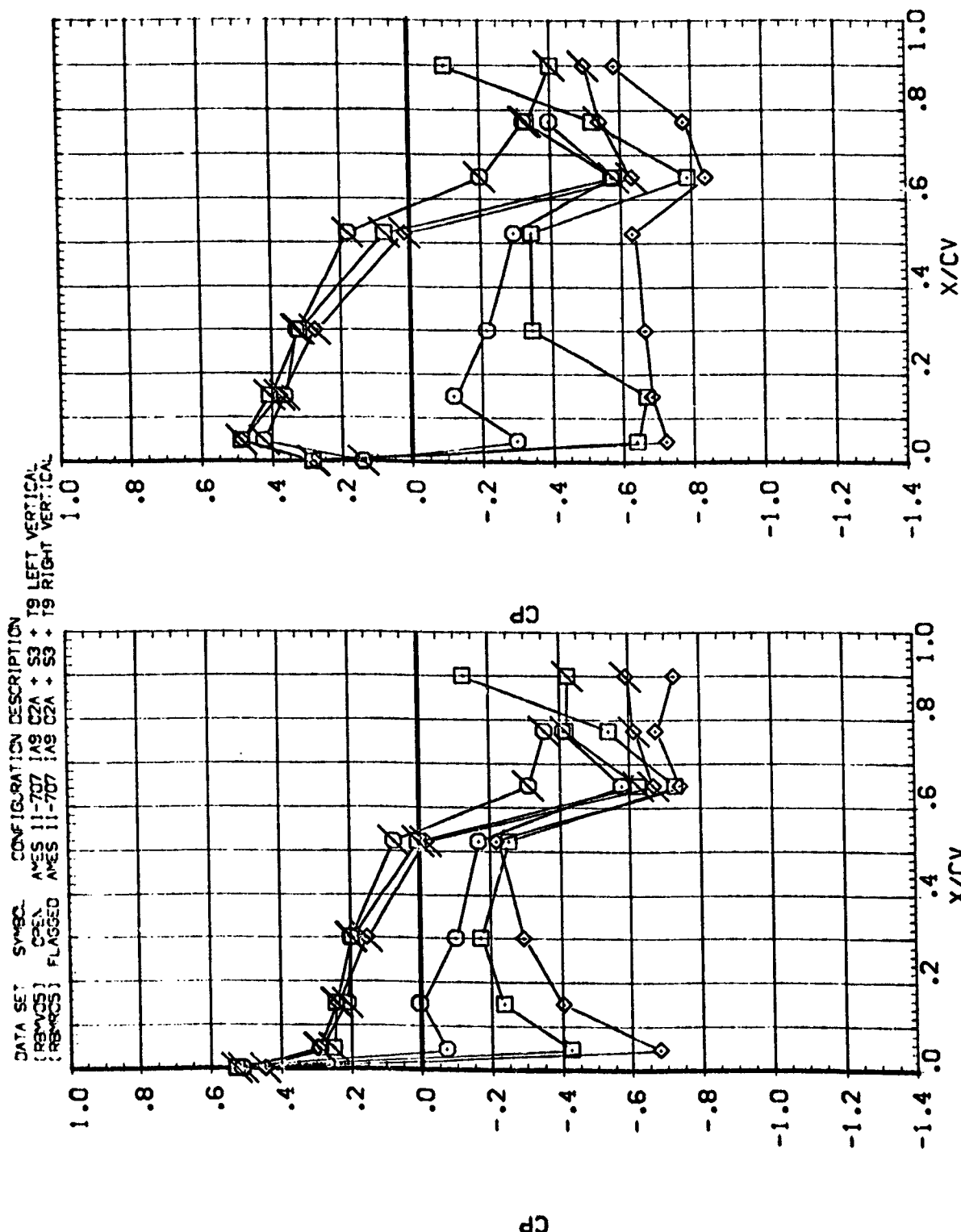
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

PARAMETRIC VALUES

ALPHAT	-4.000	ORBITC	.500
R.ODER	.000	ELEVON	.000
R.0FLR	.000		

SYMBOL

Z/BV	BETA	MACH
.158	4.140	1.100
.315	8.270	
.600		

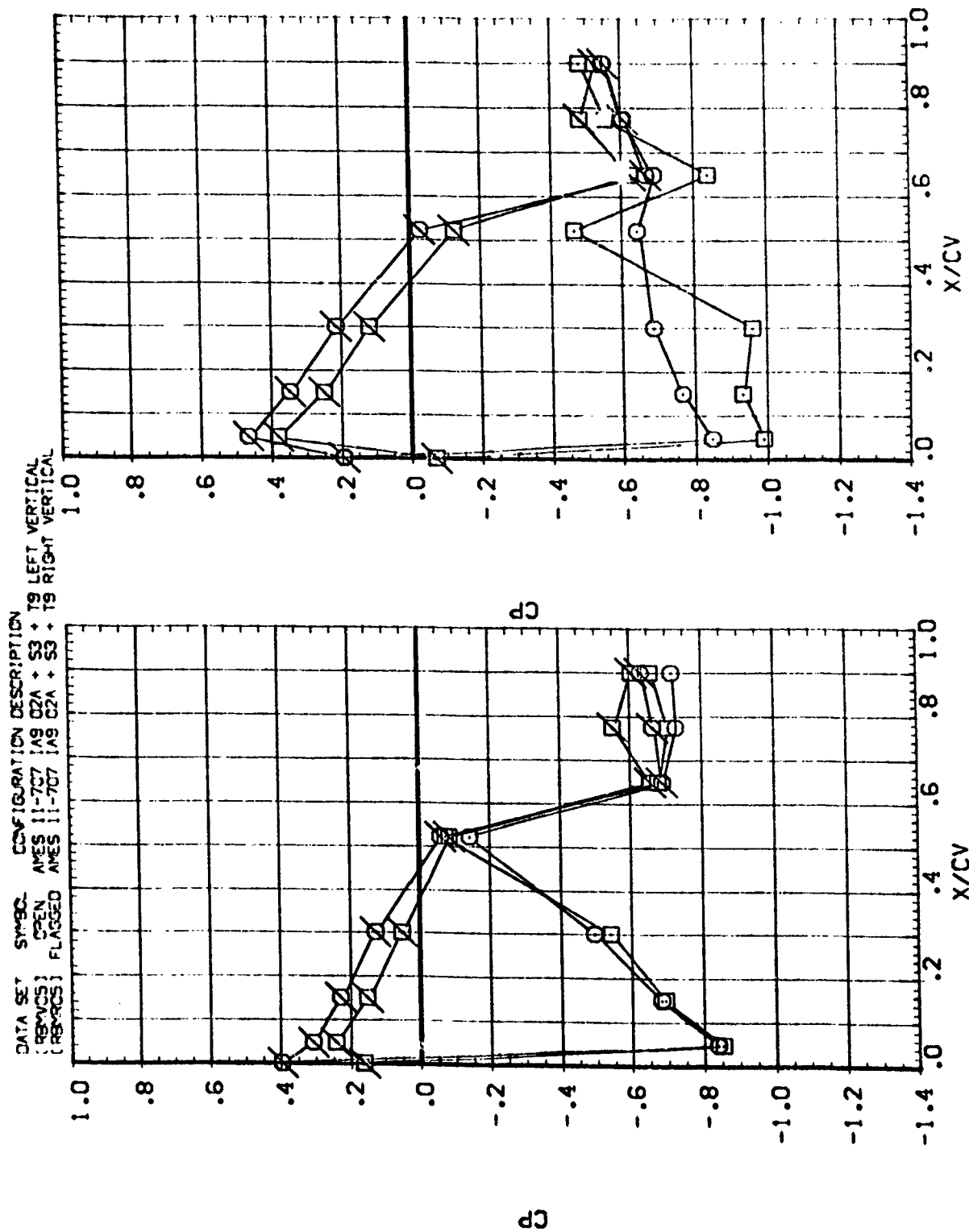


CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES



SYMBOL Z/BV BETAT MACH
0.840 4.140 1.100
0.925 8.270

PARAMETRIC VALUES
ALPHAT -4.000 ORBINC .500
RLODER .000 ELEVON .000
RLOFLR .000



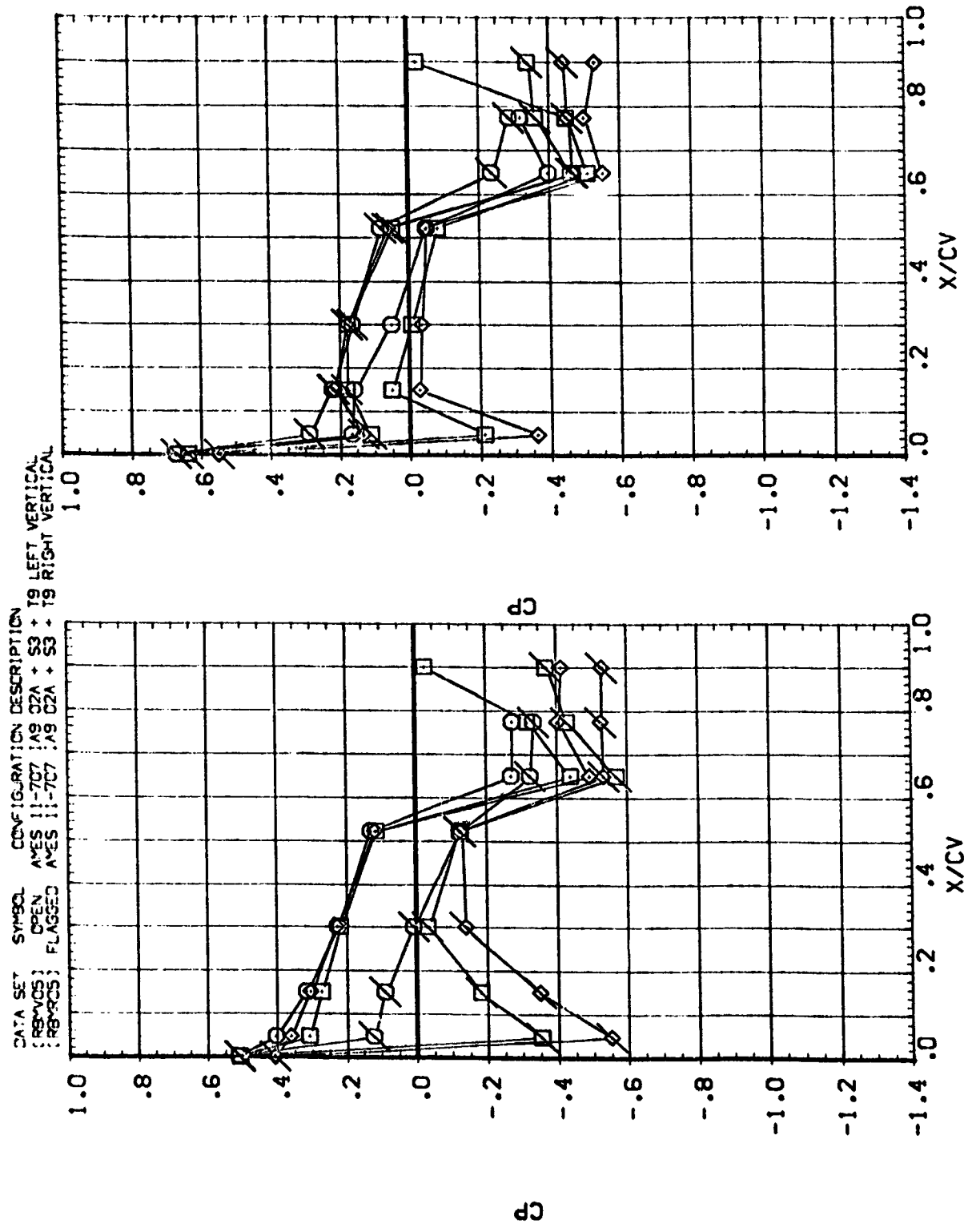
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

PARAMETRIC VALUES

ALPHAT	-4.000	CRBTNC	.500
RUDDER	.000	ELEVON	.000
RJDFLR	.000		

SYMBOL

Z/BV	BETAT	MACH
.158	-4.060	1.245
.316	2.060	
.600		

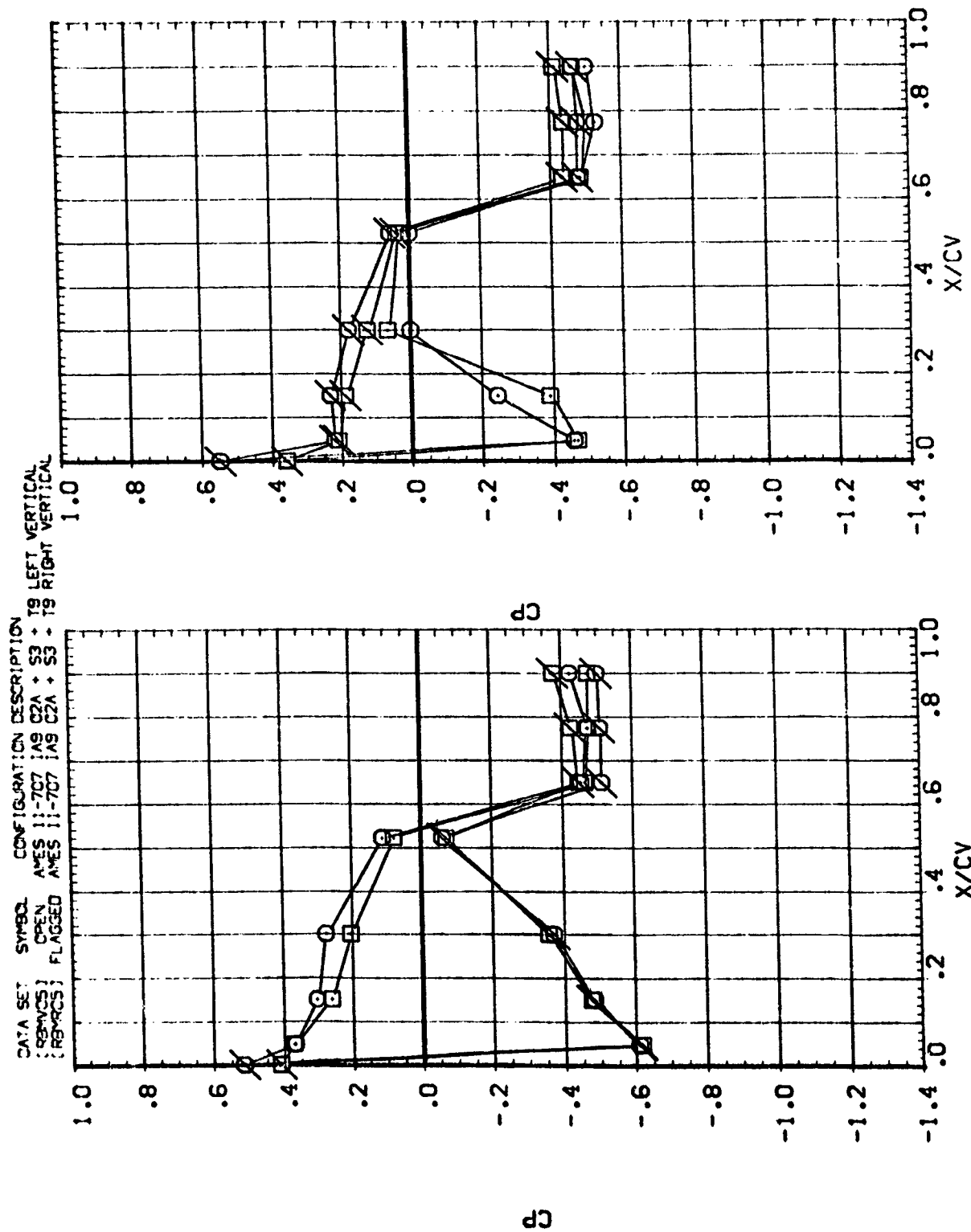


CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES



SYMBOL Z/9V BETA: MACH
.84C -4.060 1.245
.925 2.060

PARAMETRIC VALUES
ALPHAT -4.000 CRBINC .500
R-ODER .000 ELEVEN .000
R-OFER .000



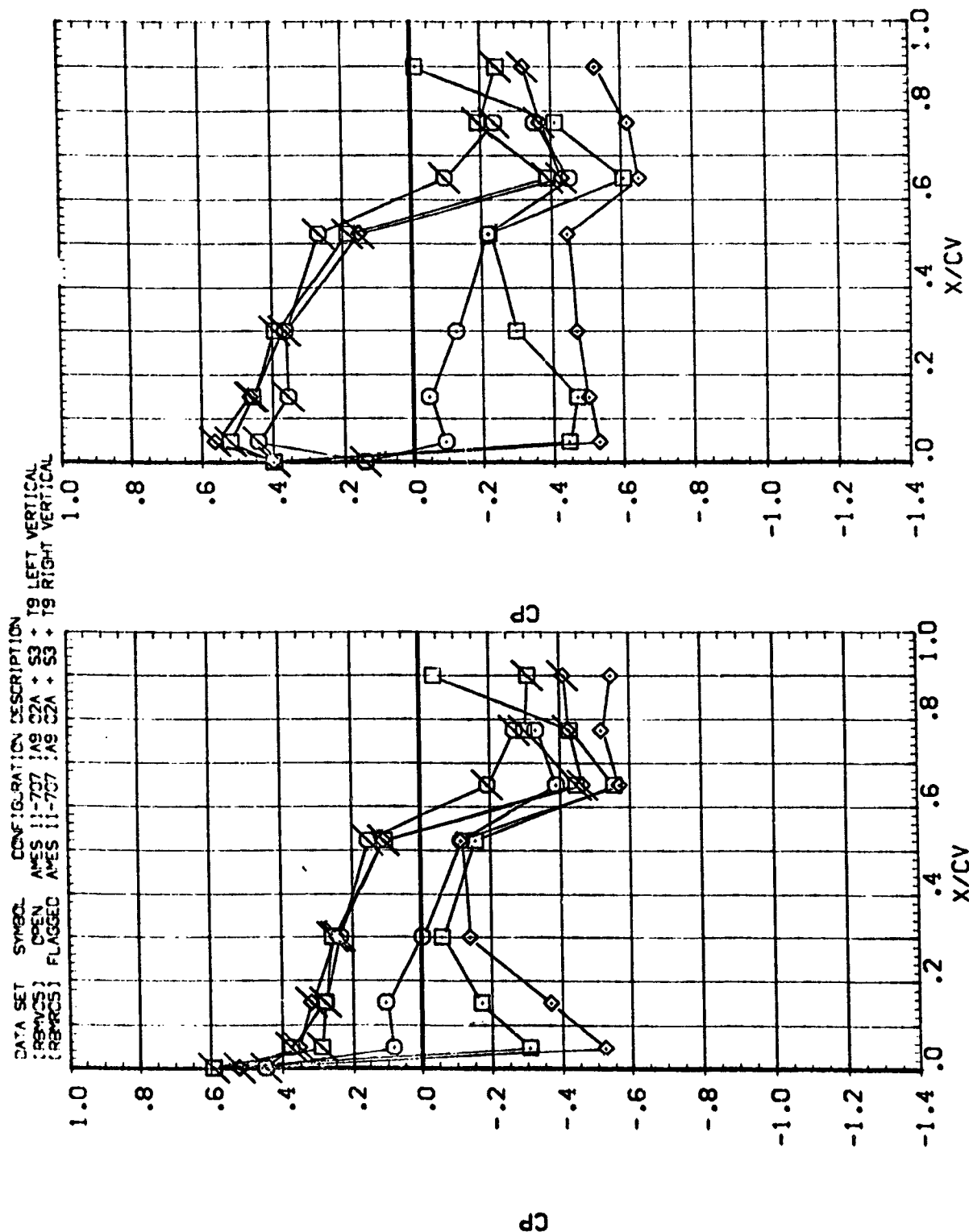
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

PARAMETRIC VALUES

ALPHAT	-4.000	CRBINC	.500
RUDDER	.000	ELEVON	.000
RJDFLR	.000		

SYMBOL Z/BV BETA² MACH

.58	4.120	1.245
.316	8.210	
.600		

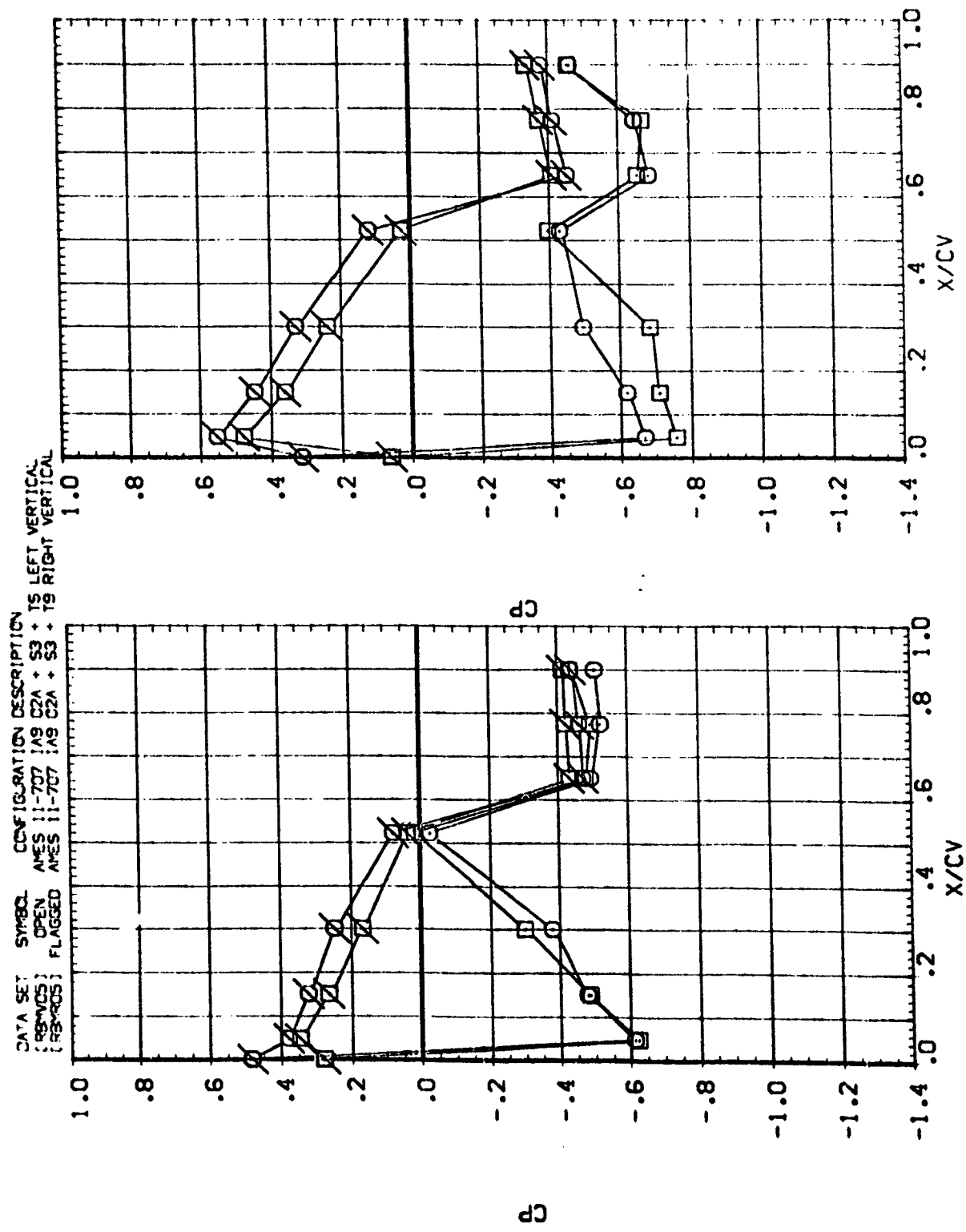


PARAMETRIC VALUES

ALPHAT	-4.000	CRBINC	.500
RUDDER	.000	ELEVON	.000
RJ3FLR	.000		

SYMBOL Z/BV BETAT MACH

○	.840	4.120	1.245
□	.925	8.210	



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

PARAMETRIC VALUES

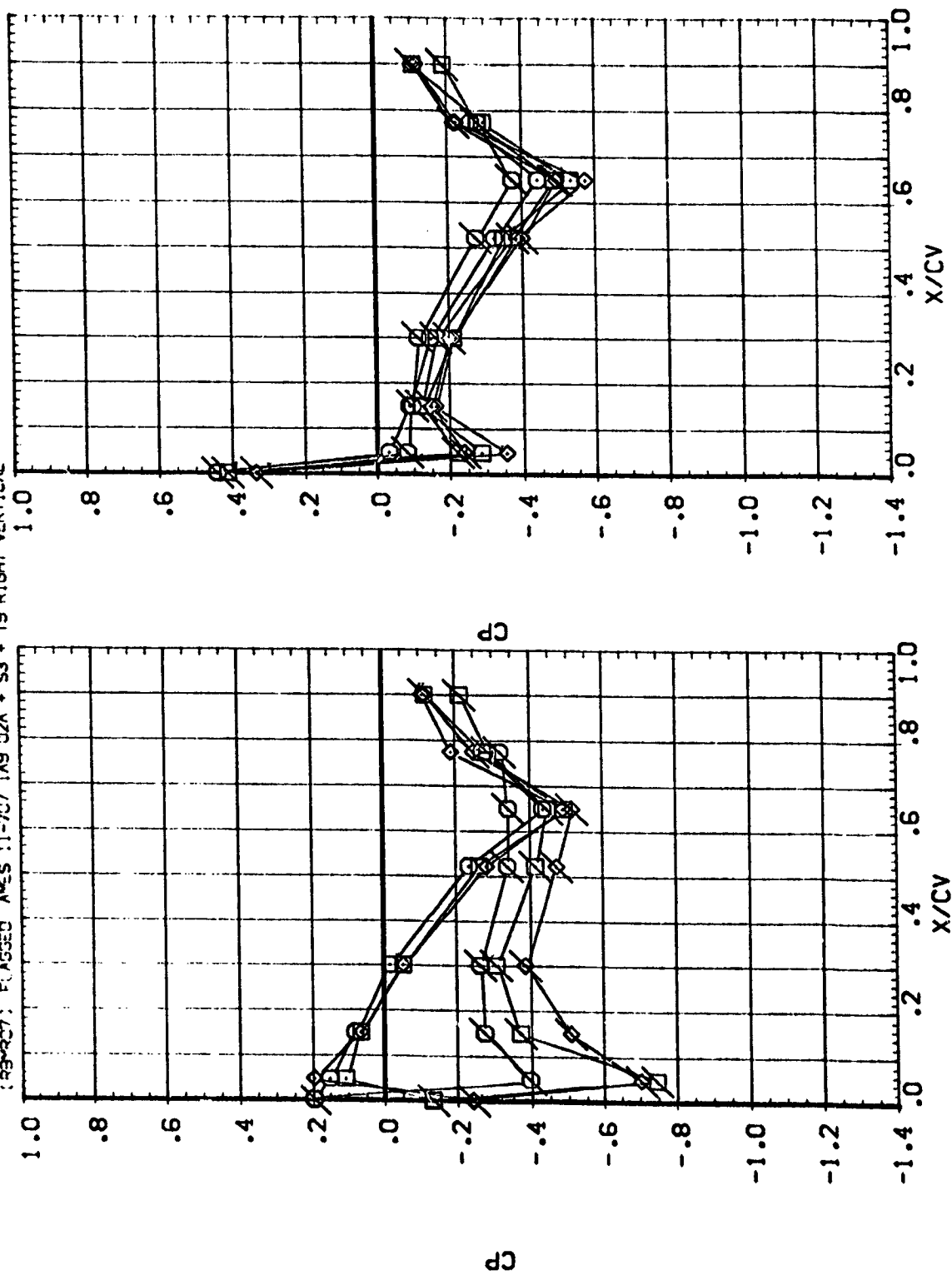
ALPHAT	.000	ORBNIC	.500
RUDDER	.000	ELEVON	.000
RJOFER	.000		

SYNCH Z/BN BETA* MACH

.58	-4.05C	.597
.316	.02C	
.600		

DATA SET SYMBOL CONFIGURATION DESCRIPTION

RBWV07	OPEN	ANES 11-707	1A9 C2A + S3 + T9 LEFT VERTICAL
RBWV07	FLASSED	ANES 11-707	1A9 C2A + S3 + T9 RIGHT VERTICAL



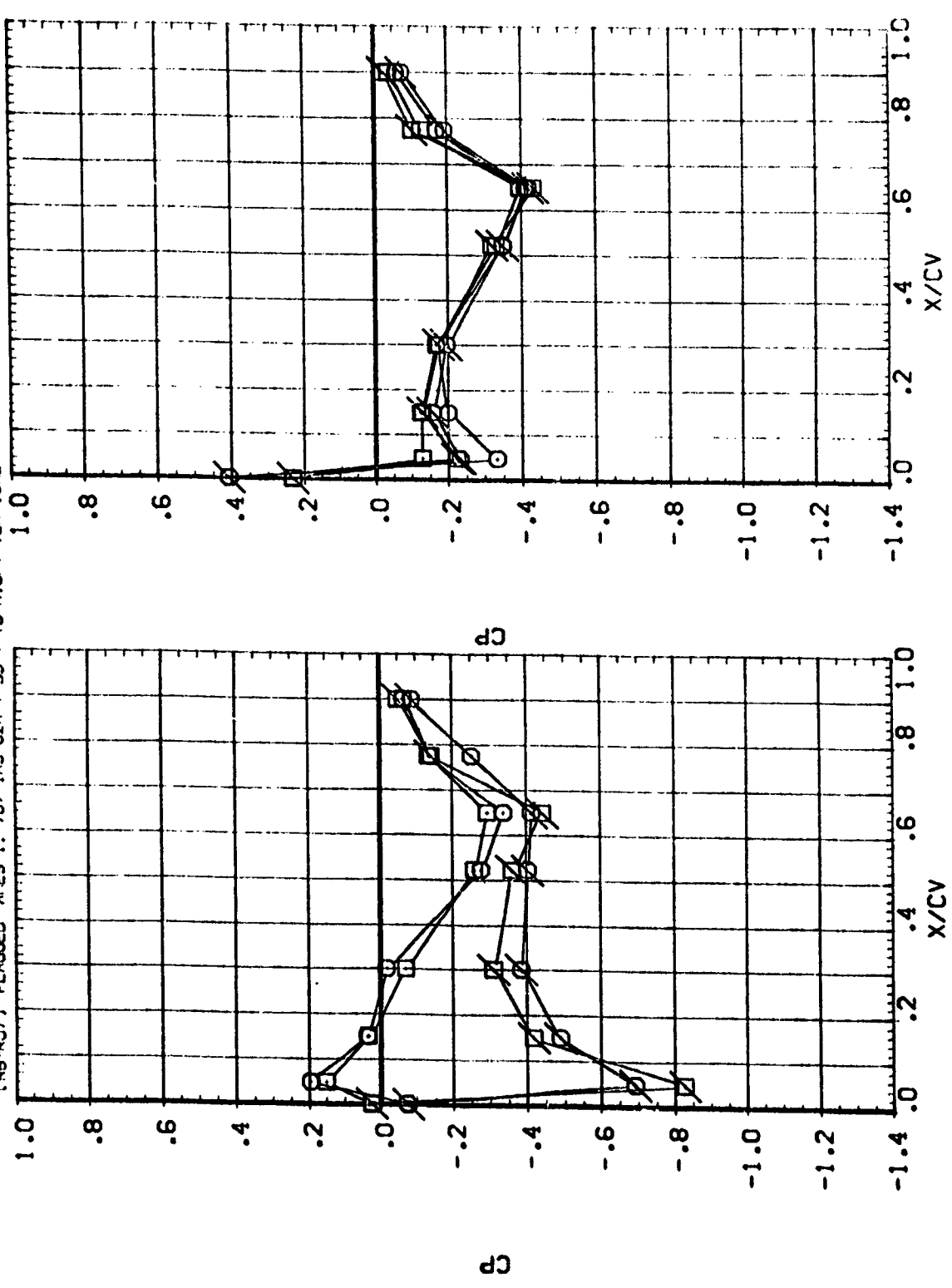
PARAMETRIC VALUES

ALPHAT	.000	ORBITC	.500
RCDER	.000	ELEVON	.000
RJOF LR	.000		

SYMBOL

Z/BV	.84C	BETAT	MACH
	.925	-4.050	.597
		.020	

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RBW07) OPEN ARES 11-707 :AS C2A + S3 + T9 LEFT VERTICAL
 (RBW07) FLAGGED ARES 11-707 :AS C2A + S3 + T9 RIGHT VERTICAL



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

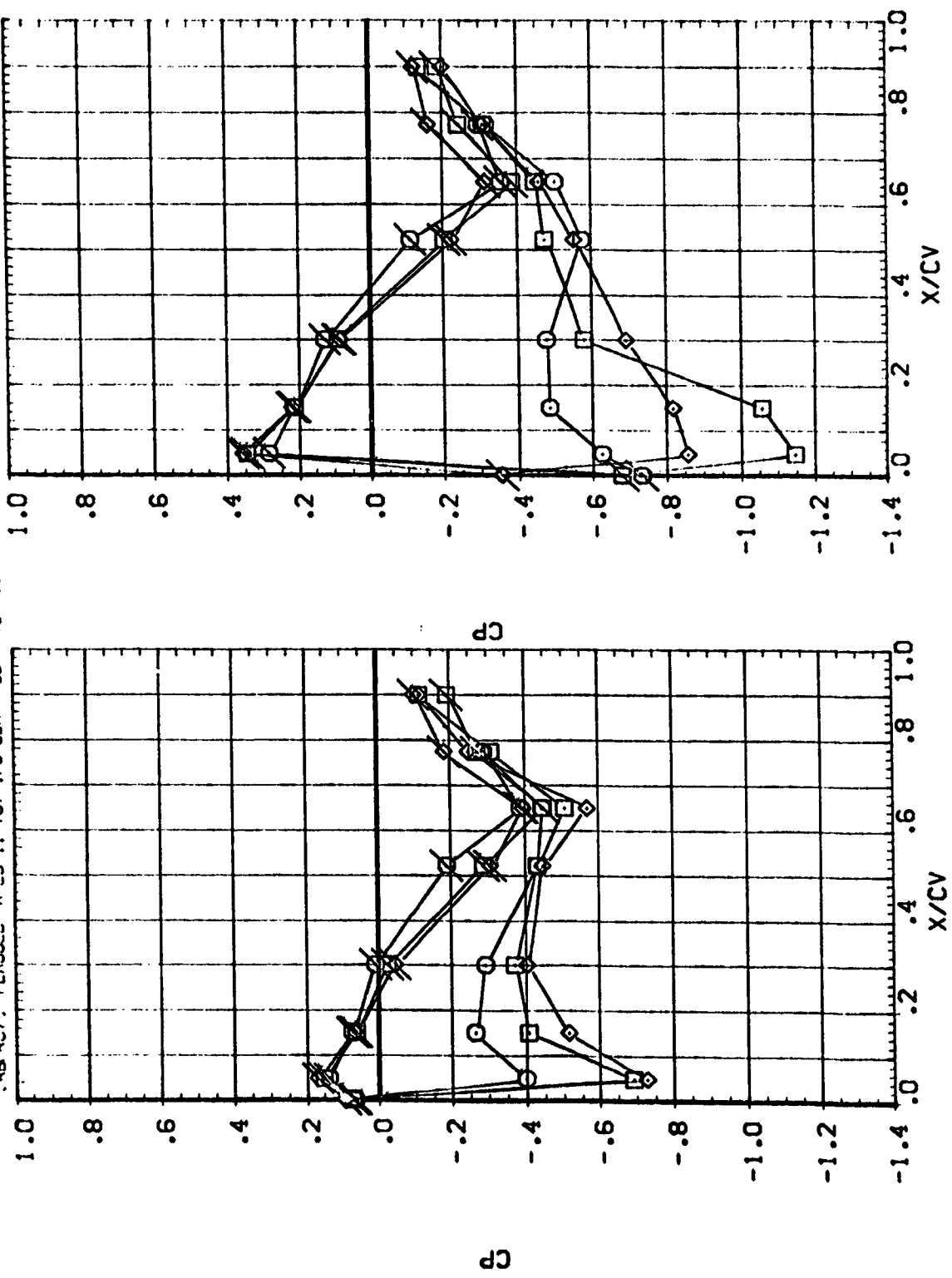


SYMBOL
O
□
◇

SYMBOL Z/BV BETA² MACH
O .58 4.080 .597
□ .316 8.140
◇ .600

PARAMETRIC VALUES
ALPHAT .000 ORBITC .500
RUDDER .000 ELEVON .000
RUDDLR .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
[REPMCT] OPEN ANES 11-707 [A9 C2A + S3 + T9 LEFT VERTICAL
[REPMCT] FLAGGED ANES 11-707 [A9 C2A + S3 + T9 RIGHT VERTICAL

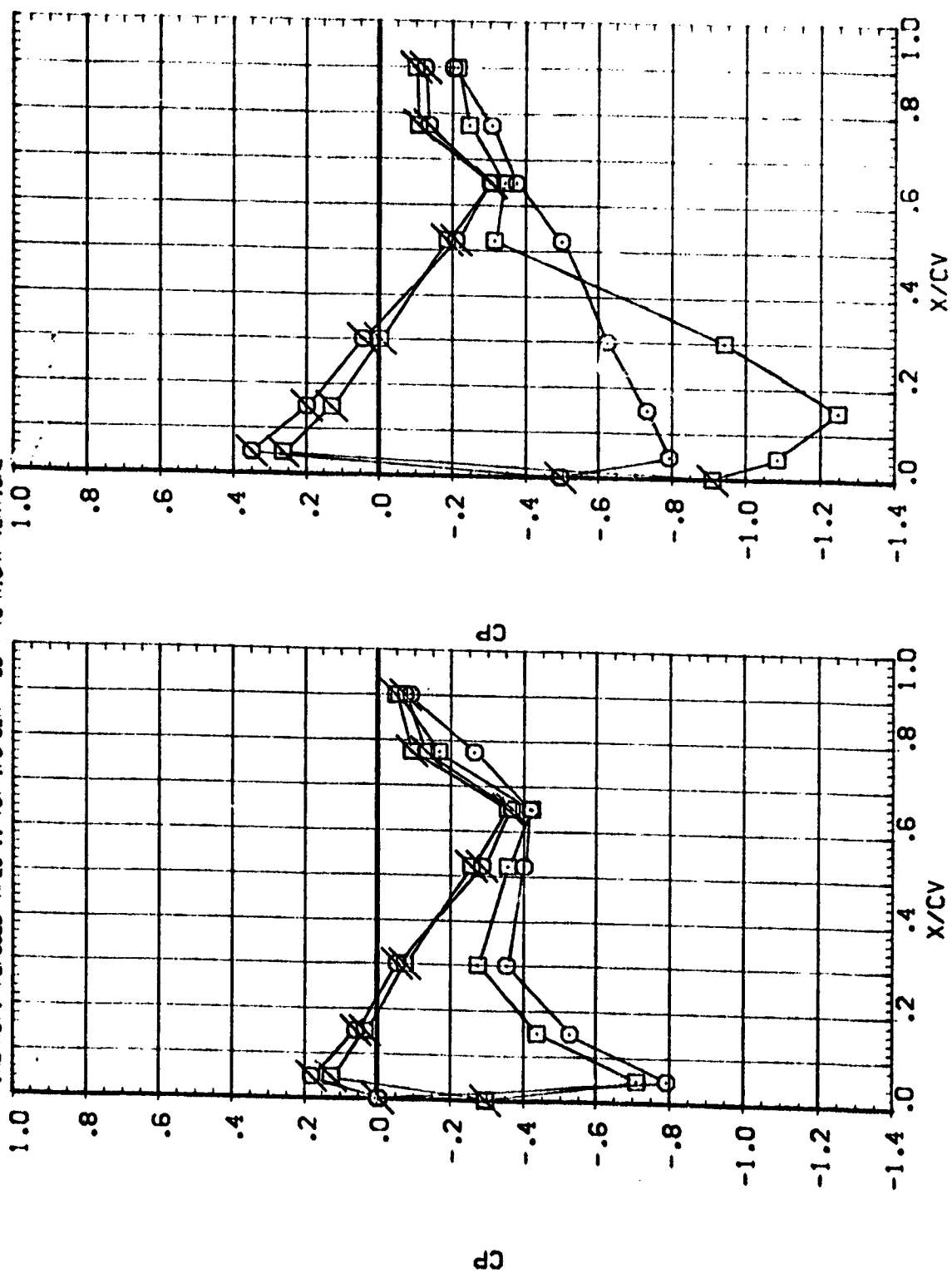


SYMBOL Z/BV

BETAT MACH

PARAMETRIC VALUES
ALPHAT .000 DRBINC .500
RUDDER .000 ELEVON .000
RUDFLR .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
[RB-VOT] OPEN AMES 11-707 1A9 02A + S3 + T9 LEFT VERTICAL
[RB-VOT] FLAGED AMES 11-707 1A9 02A + S3 + T9 RIGHT VERTICAL



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES



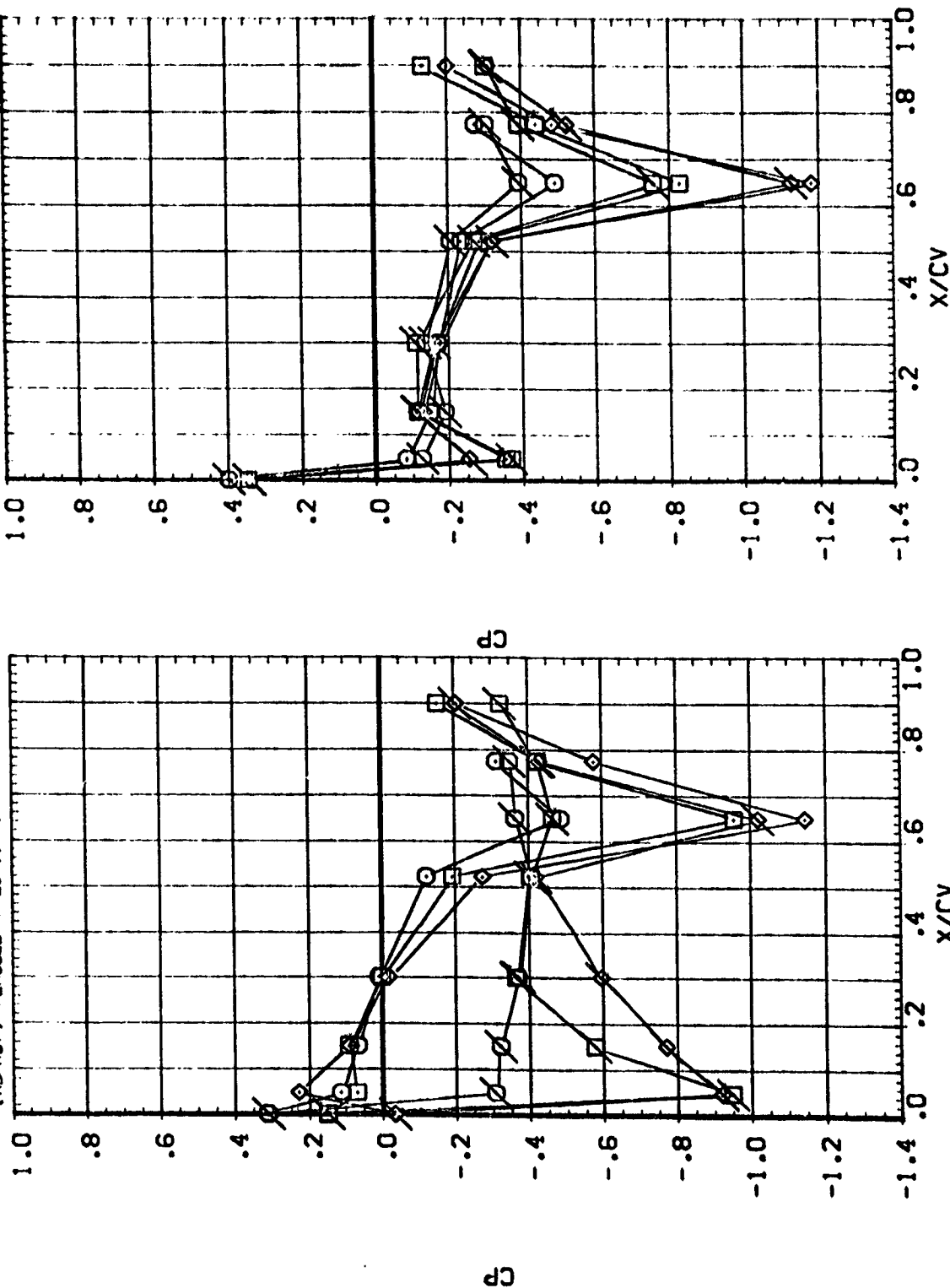
SYMBOL Z/BV
O .158
O .316
◇ .600

BETA
-4.08C
.020

MACH
.900

PARAMETRIC VALUES
ALPHAT .000
RUDDER .000
RUDFLR .000
CWBINC .500
ELEVEN .000

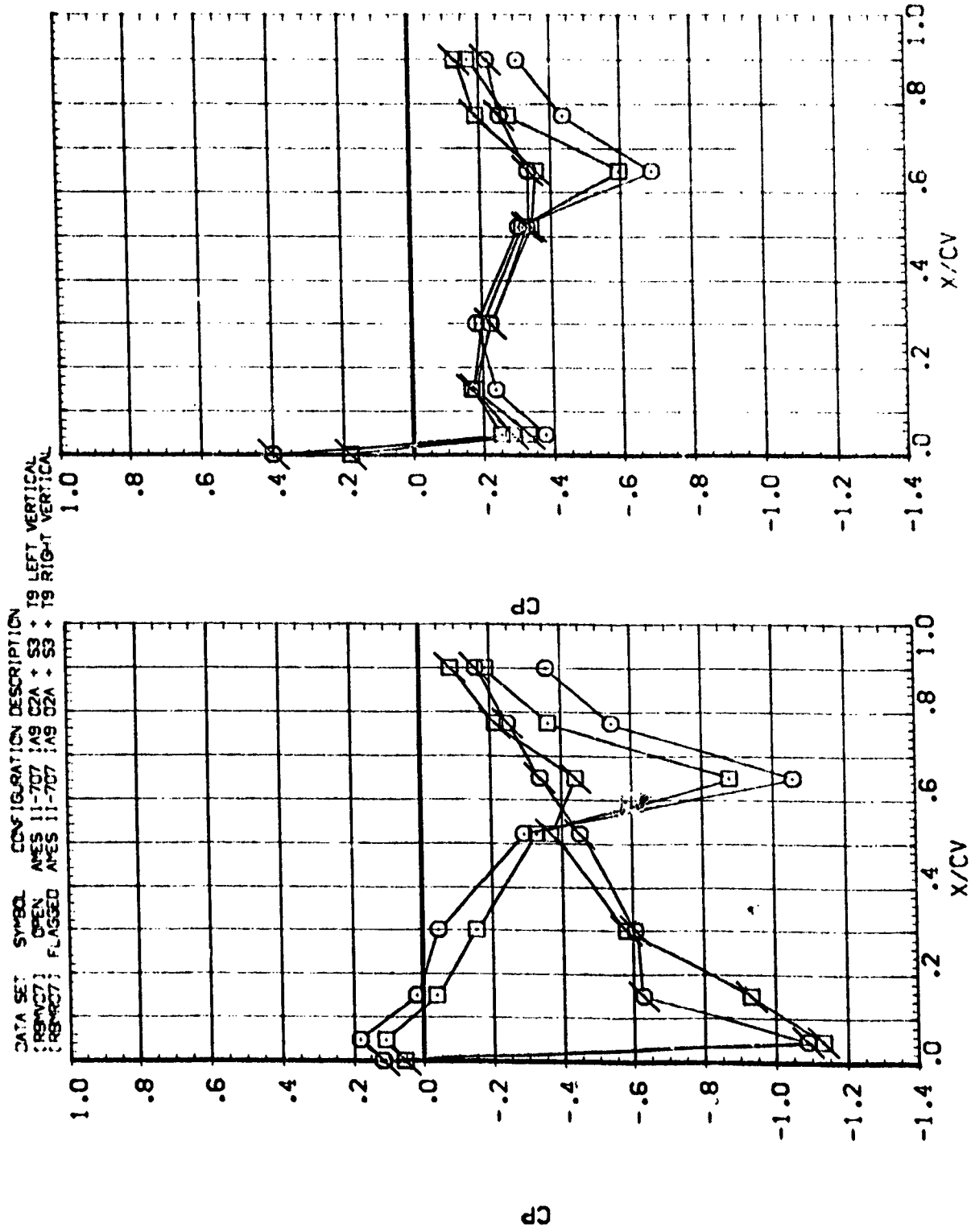
DATA SET SYMBOL CONFIGURATION DESCRIPTION
(RBMVC7) OPEN AMES 11-707 1A9 02A + S3 + T9 LEFT VERTICAL
(RBMVC7) FLAGGED AMES 11-707 1A9 02A + S3 + T9 RIGHT VERTICAL





SYMBOL Z/BV .84C .925
BETAT -4.08C .02C
MACH .900

PARAMETRIC VALUES
ALPHAT .000
RUDDER .000
RUDFLR .000
ORBITC .500
ELEVON .000



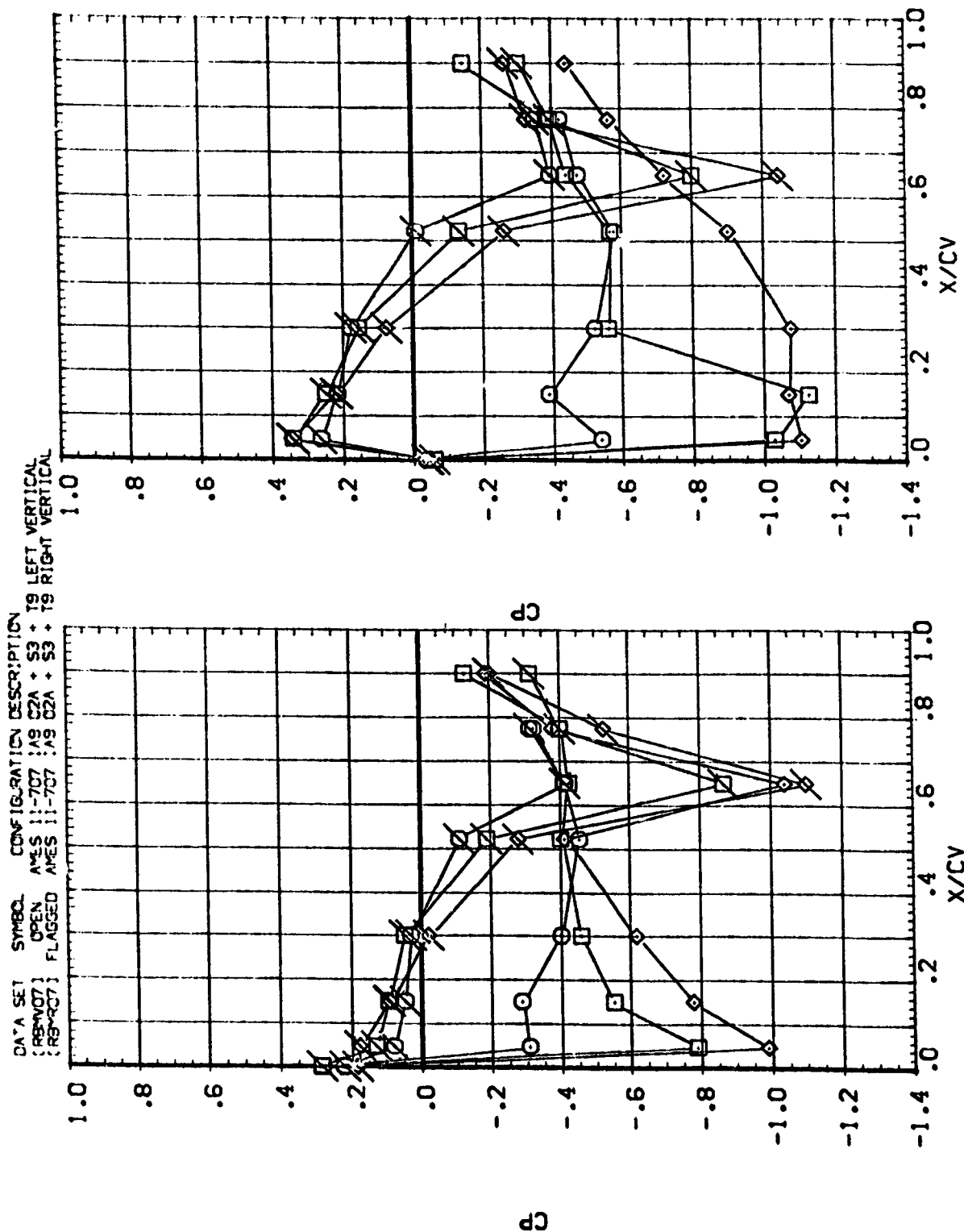
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

PARAMETRIC VALUES

ALPHAT	.000	ORBITC	.500
RJODER	.000	ELEVON	.000
RJOFILR	.000		

SYMBOL Z/BV B/TAT MACH

○	.158	4.170	.900
□	.316	8.220	
◇	.632		

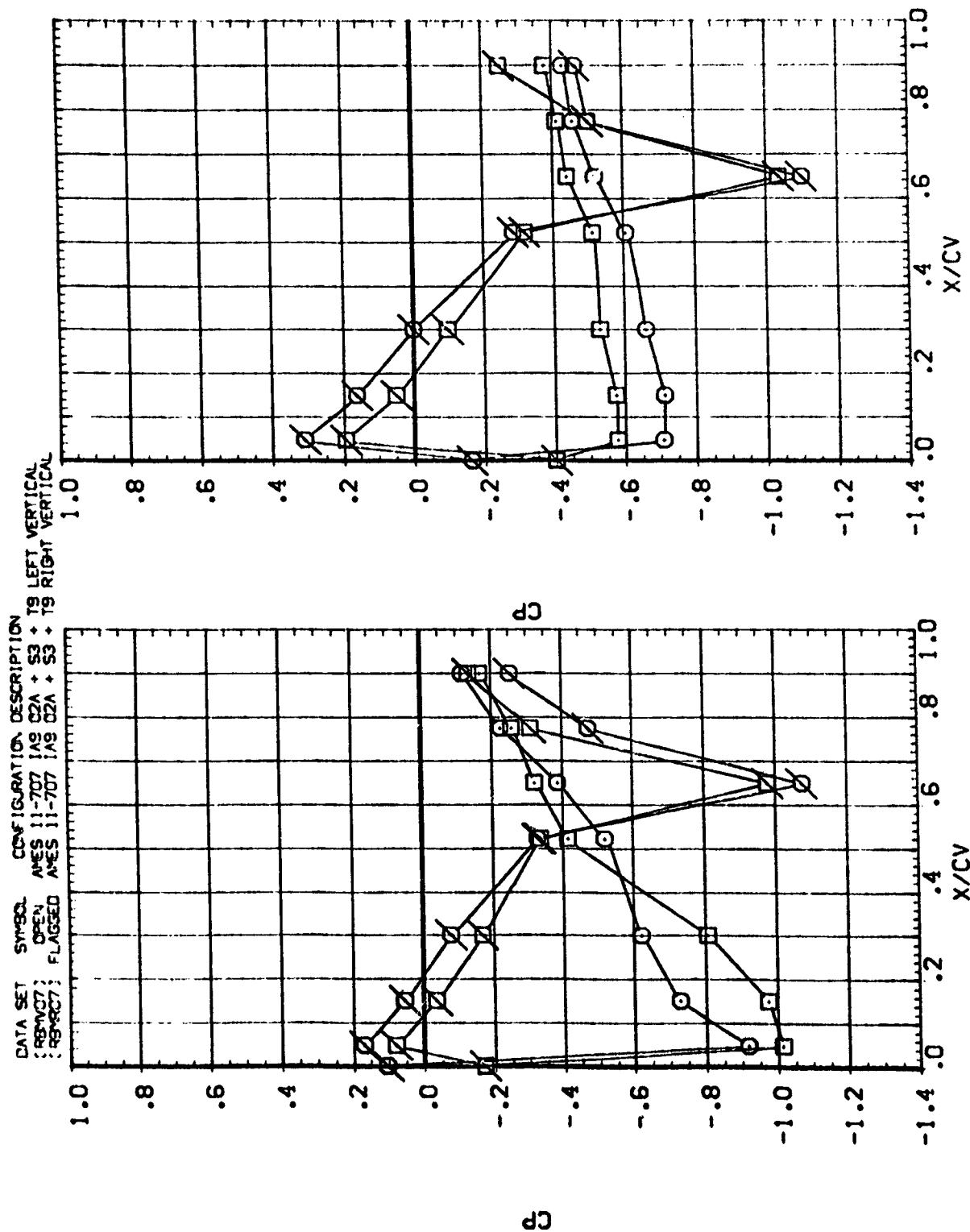


CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES



SYMBOL Z/BV BETAT MACH
○ .843 4.120 .900
□ .925 8.22C

PARAMETRIC VALUES
ALPHAT .000 ORBINC .500
RUDDER .000 ELEVON .000
RUOFLR .000



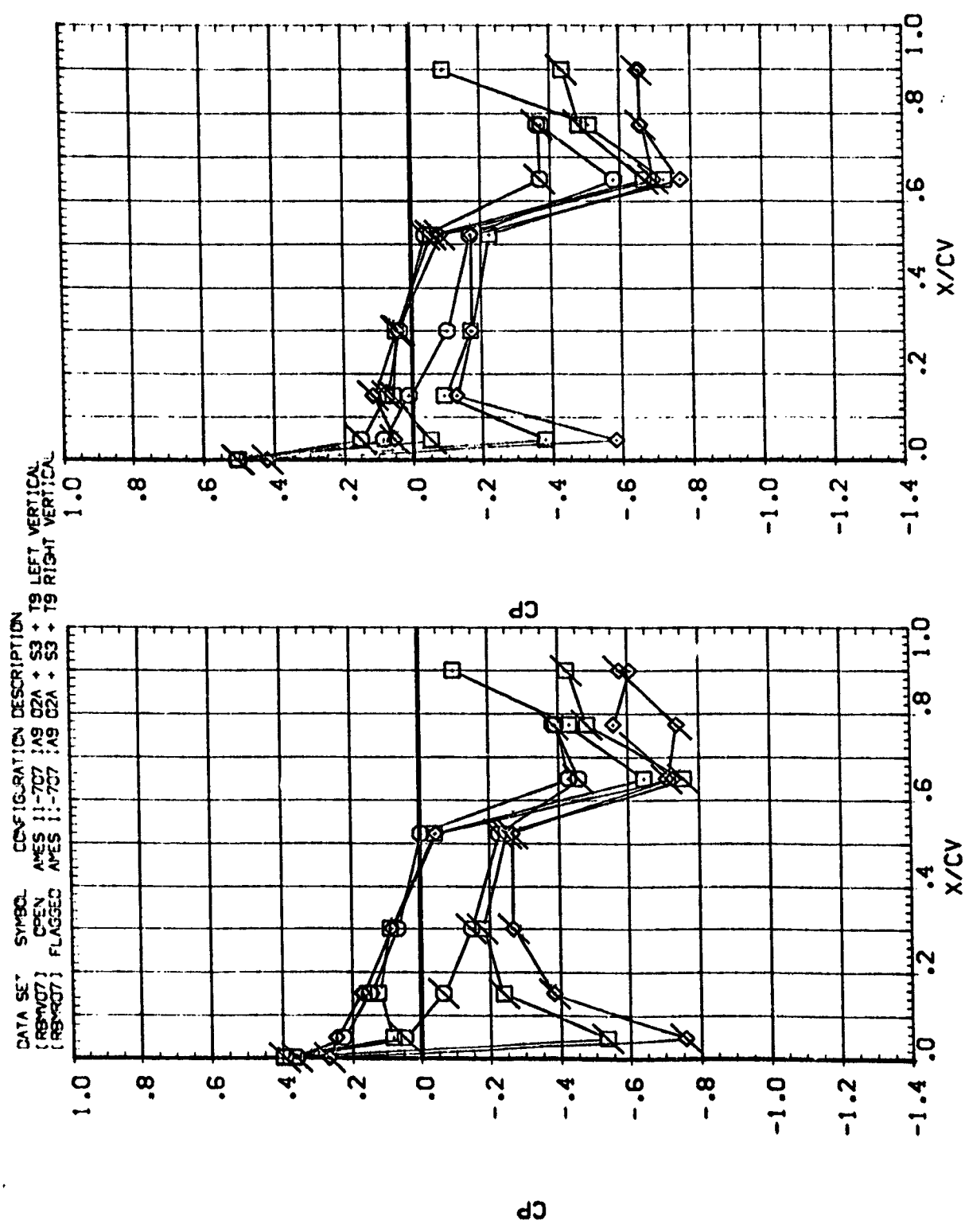
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

PARAMETRIC VALUES

ALPHAT	.000	ORBITC	.500
RJGGER	.000	ELEVEN	.000
RJGFLR	.000		

SYMBOL Z/BV R/A MAC

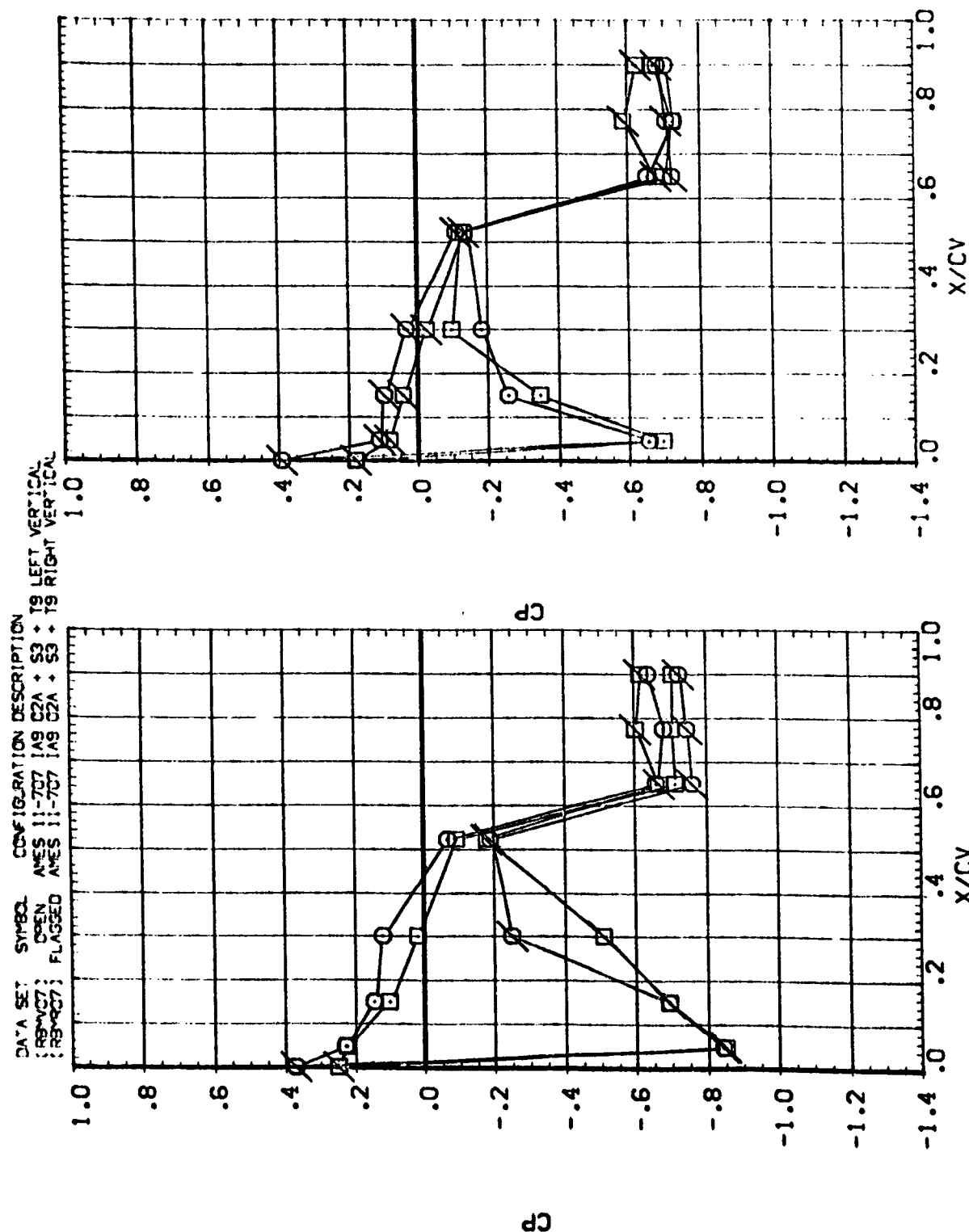
0110	.158	-4.080	1.100
	.316	2.073	
	.600		





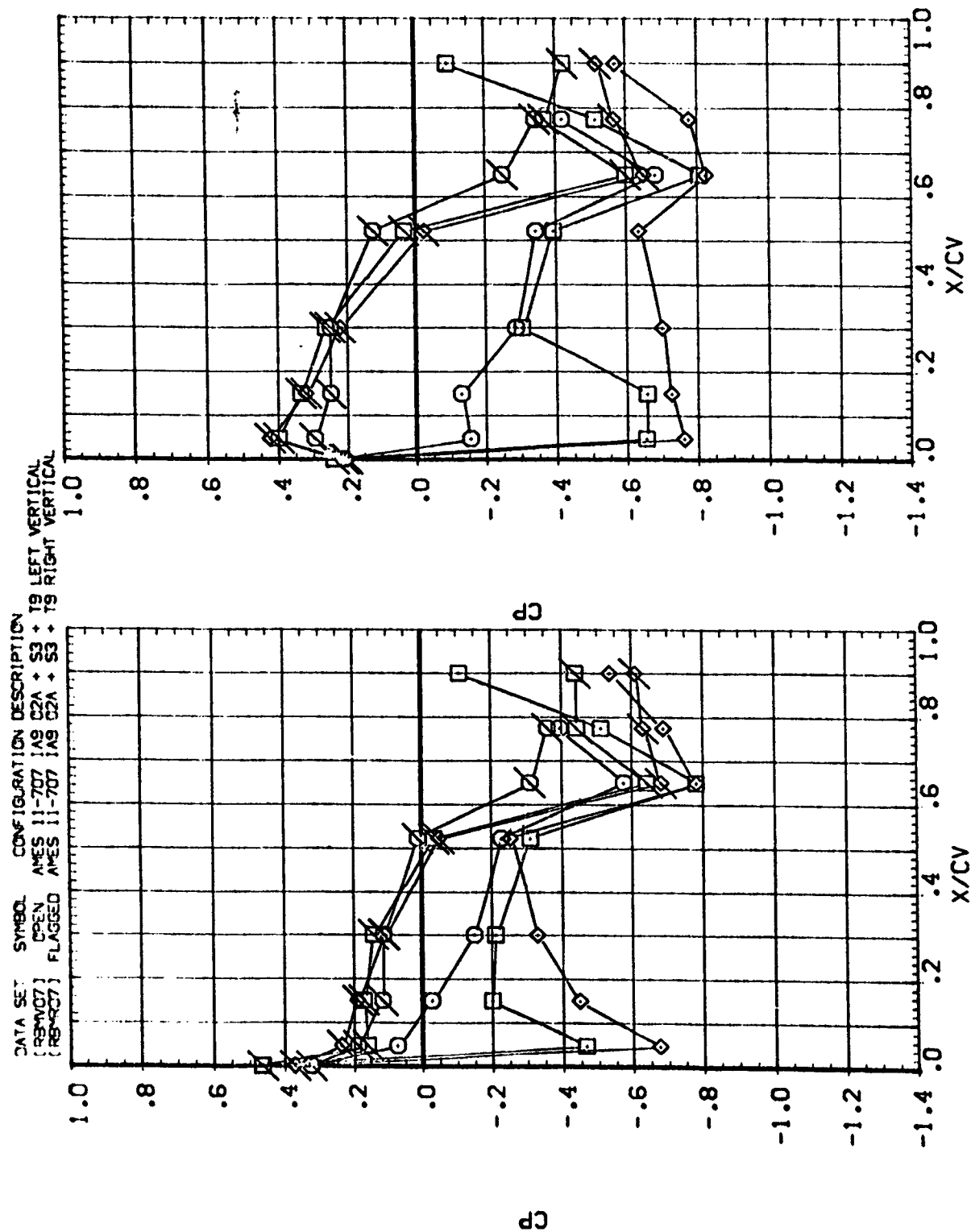
SYMBOL Z/BV BETAT MACH
-4.080 1.100
-925 2.07C

PARAMETRIC VALUES
ALPHAT .000 ORBINC .500
RUDDER .000 ELEVON .000
RUDCLR .000



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL	Z/B	BETA	WACH
□	.158	4.140	1.100
□	.316	8.250	
◇	.600		

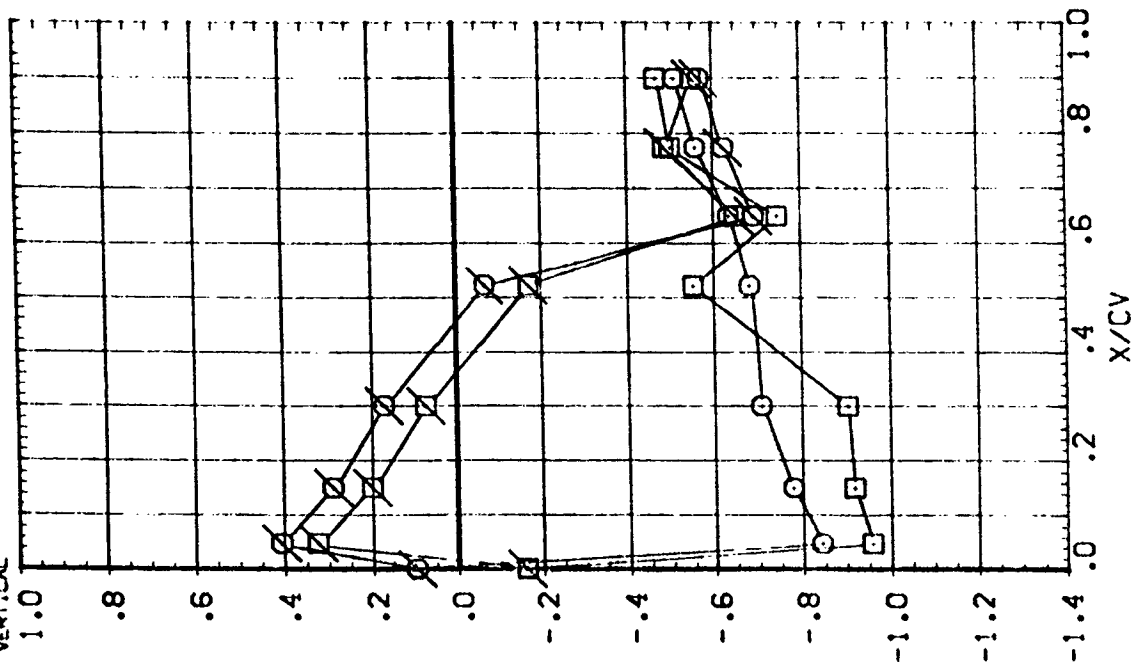
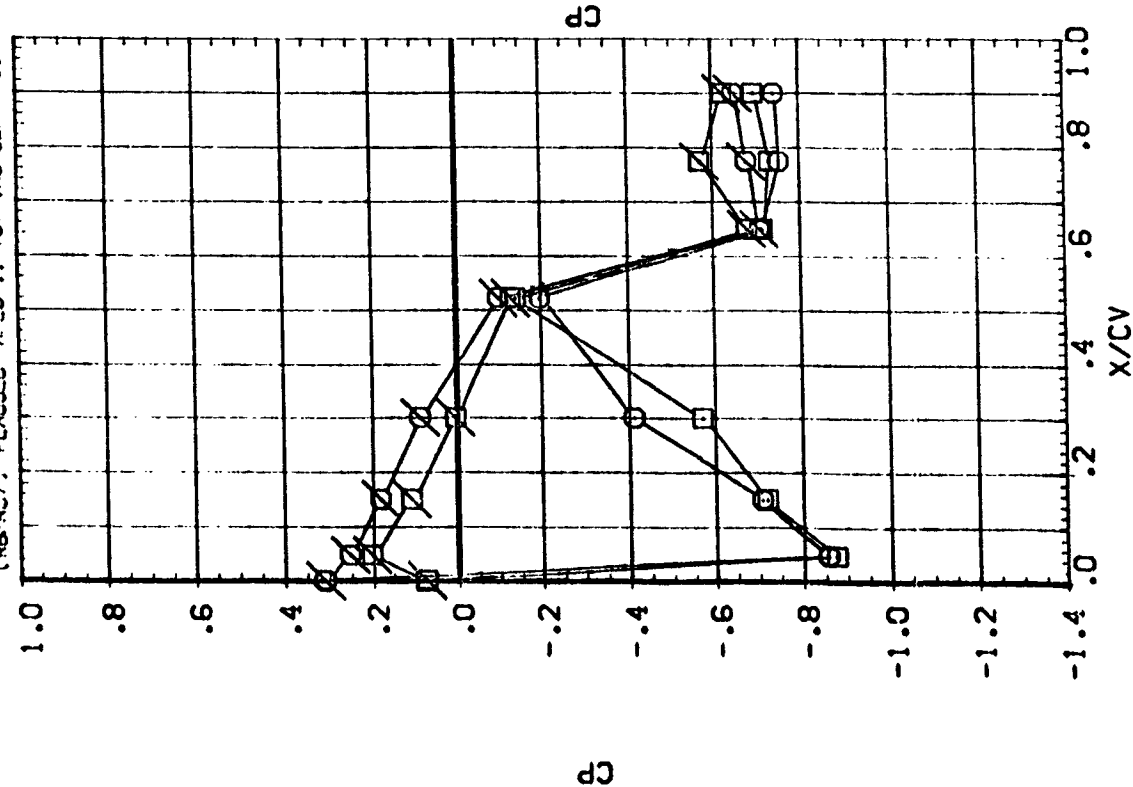




SYMBOL Z/BV BETAT MACH
.840 4.140 1.100
.925 8.250

PARAMETRIC VALUES
ALPHAT .000 DRBINC .500
RLODR .000 ELEVON .000
RJOFLR .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(RBNV07) OPEN ANES 11-707 AS 02A + S3 + T9 LEFT VERTICAL
(RBNV07) FLAGGED ANES 11-707 AS 02A + S3 + T9 RIGHT VERTICAL



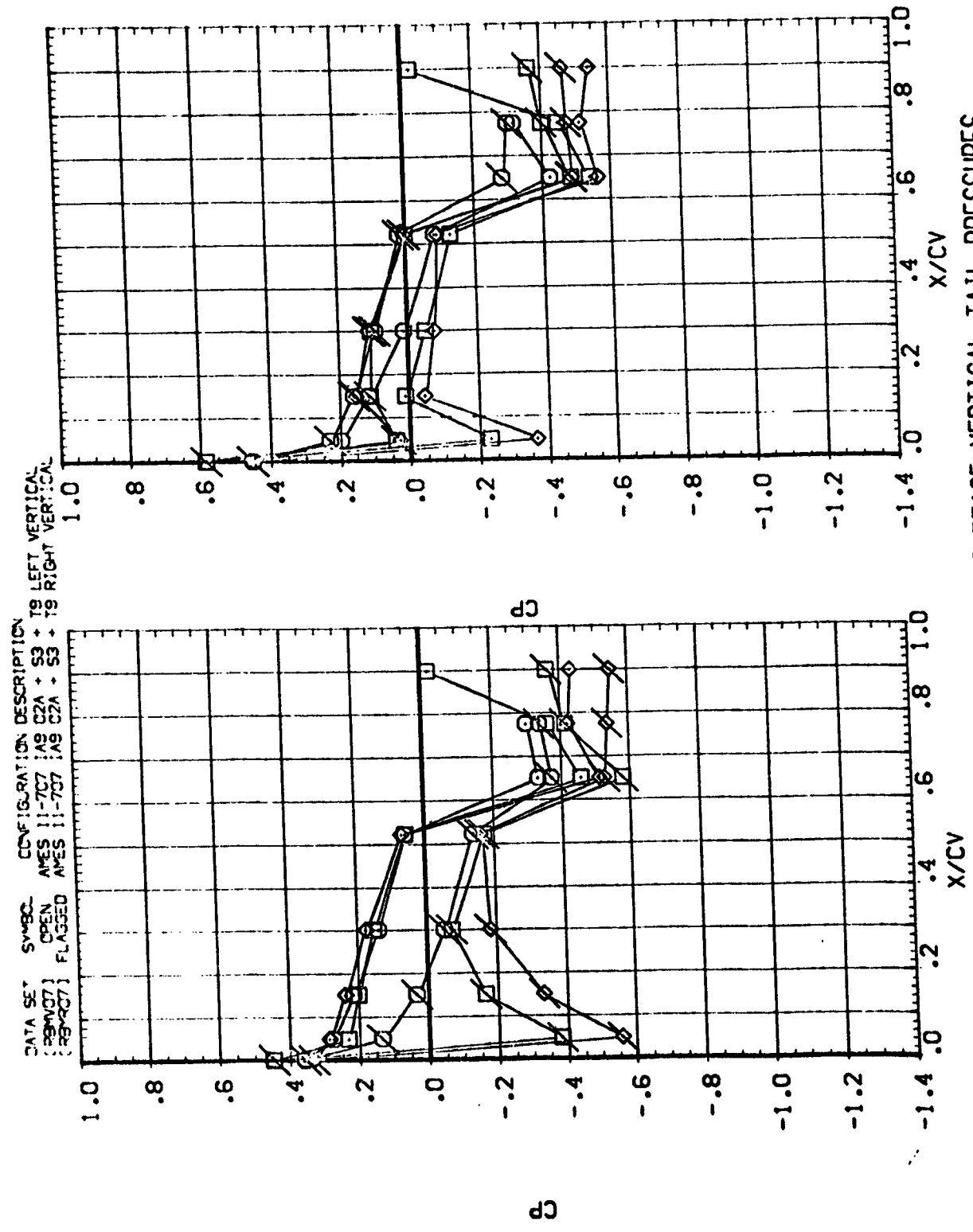
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES



SYMBOL Z/BV
O
O
O
O

BEAT MACH
-4.080 1.249
2.060

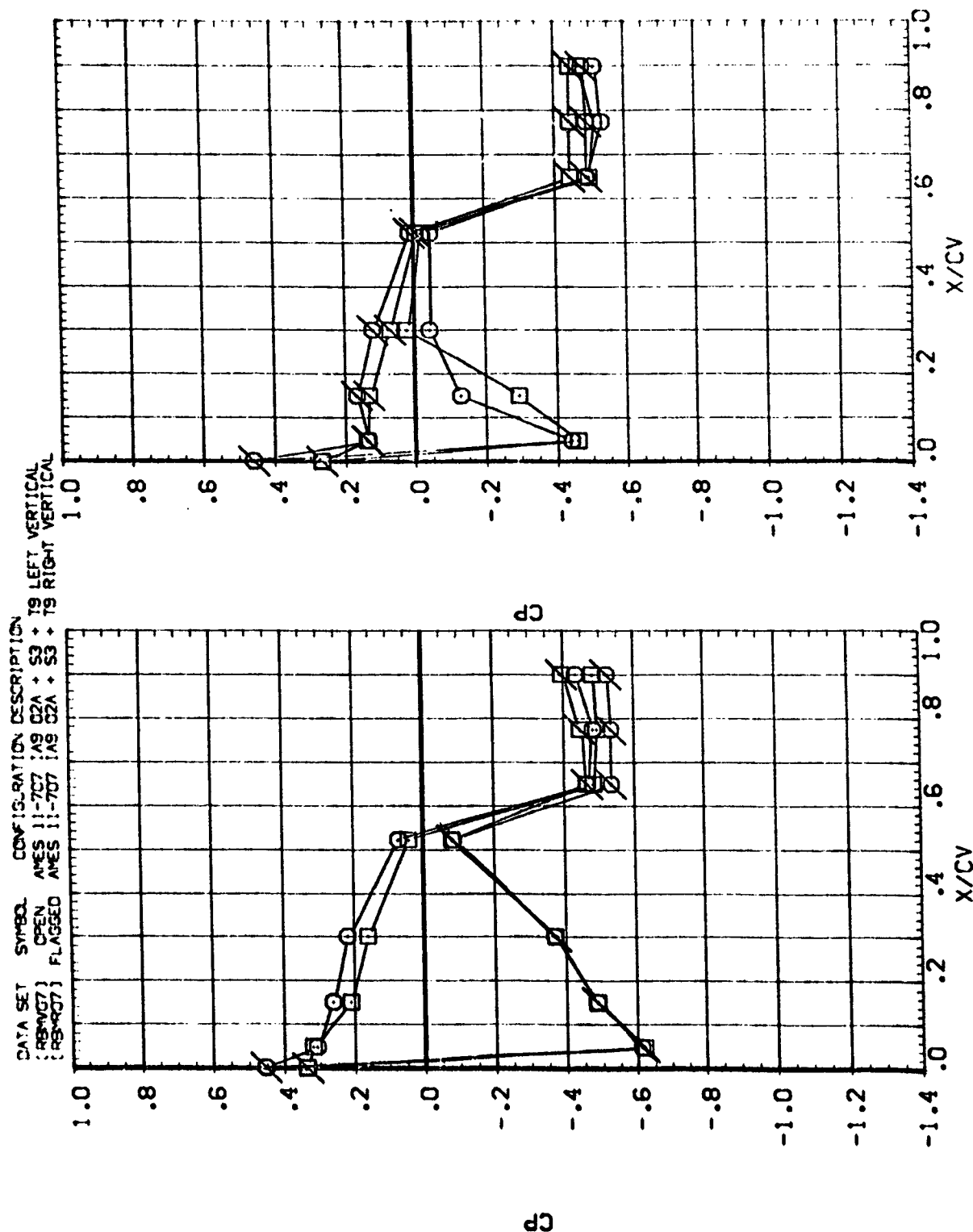
PARAMETRIC VALUES
ALPHAT .000 ORBINC .500
RUDDER .000 ELEVON .000
RUOFLR .000



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SYMBL Z/BV BETAT MACH
 .840 -4.080 1.249
 .925 2.05C

PARAMETRIC VALUES
 ALPHAT .000 ORGINC .50C
 RJOER .000 ELEVON .00C
 RJOFLR .00C



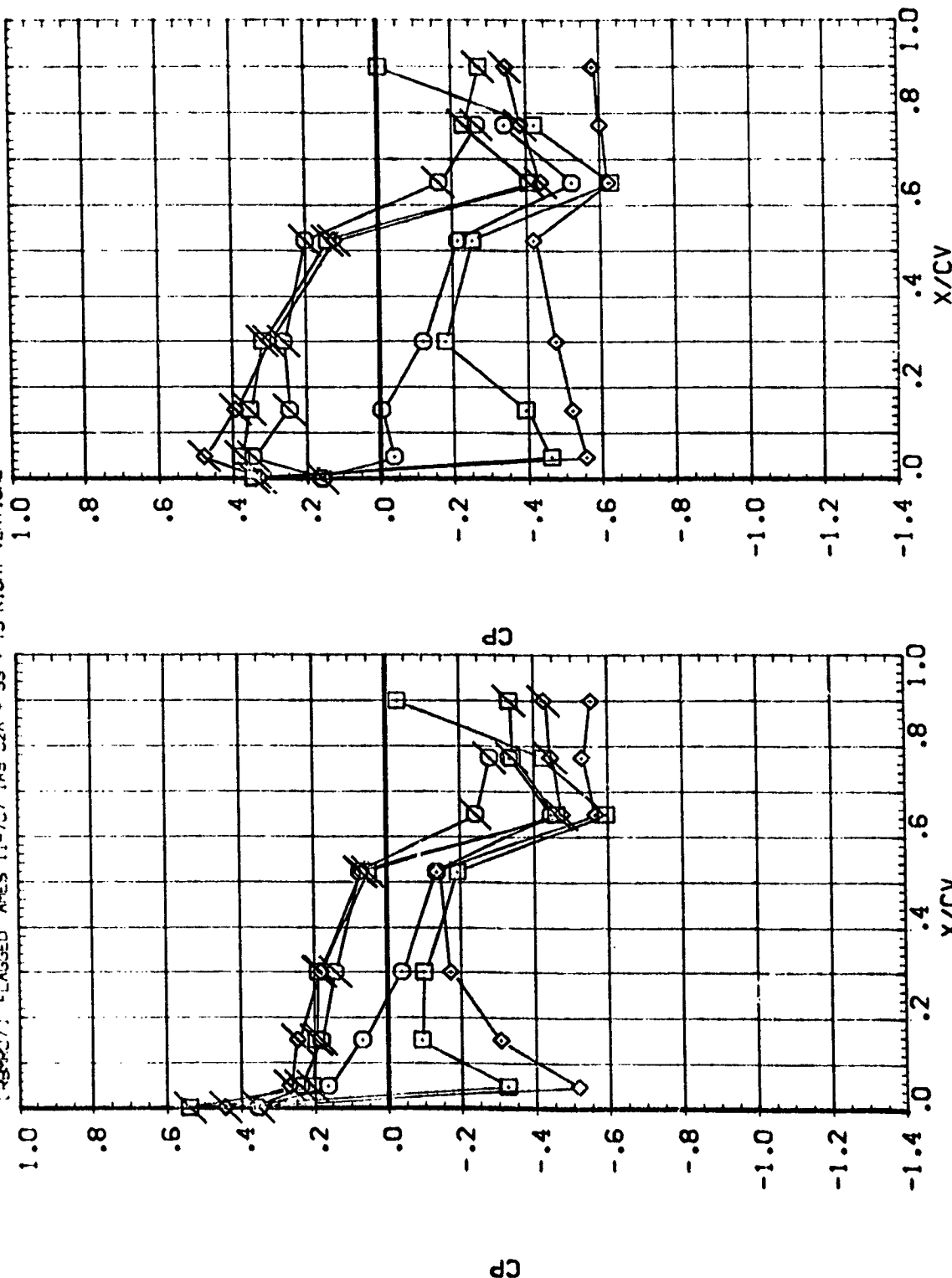
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

Ames

PARAMETRIC VALUES
 .000 .000 .000
 .000 .000 .000
 .000 .000 .000

SYMBOL Z/BV BETAT MACH
 .158 4.100 1.249
 .316 8.180
 .600

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (R8A07) OPEN AVES 11-707 (A9 C2A + S3 + T9 LEFT VERTICAL
 (R8A07) FLAGGED AVES 11-707 (A9 C2A + S3 + T9 RIGHT VERTICAL



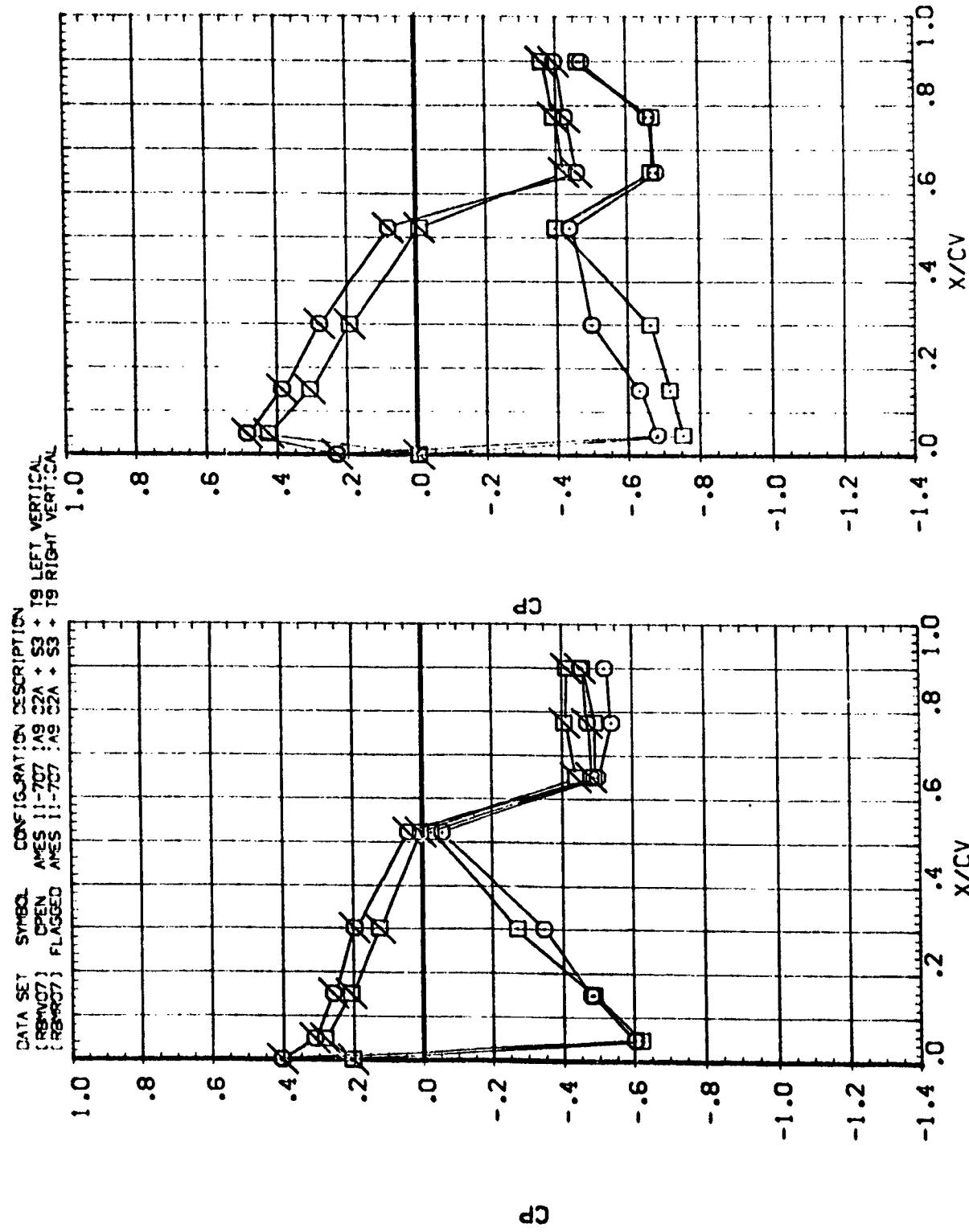
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

PARAMETRIC VALUES

ALPHAT	.000	ORBNIC	.500
RUDDER	.000	ELEVON	.000
R25LR	.000		

SYNCS Z/BV

BETAT	MACH
.840	1.249
.925	8.190



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

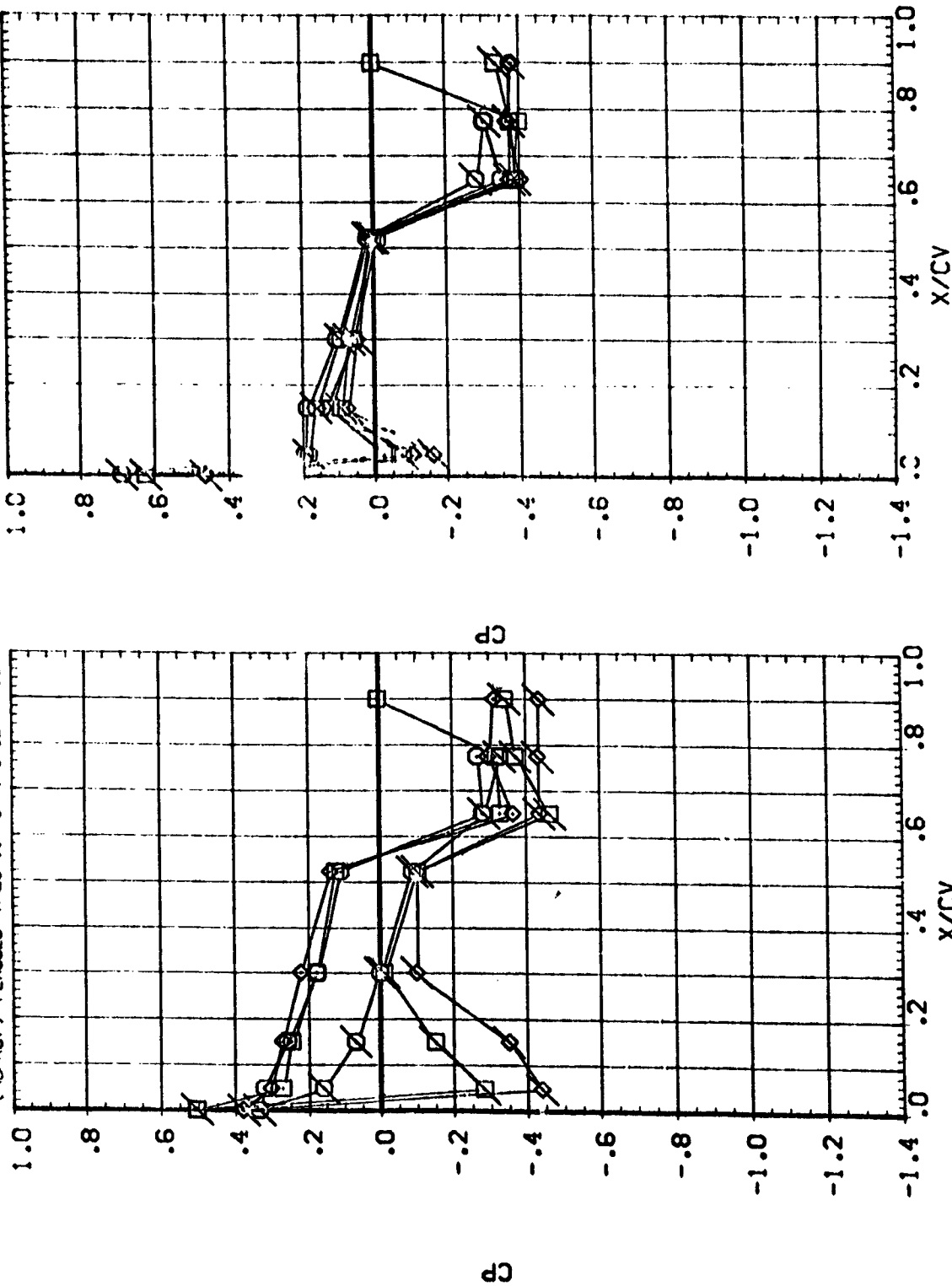


SYSC- Z/BN
 ()
 ()

BETAT MACH
 -4.080 1.395
 .020

PARAMETRIC VALUES
 ALPHAT .000 CRBINIC .500
 RUDDER .000 ELEVON .000
 RUJFLR .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RB-V07) OPEN AMES 11-707 : A9 C2A + S3 + T9 LEFT VERTICAL
 (RB-R07) FLAGGED AMES 11-707 : A9 C2A + S3 + T9 RIGHT VERTICAL

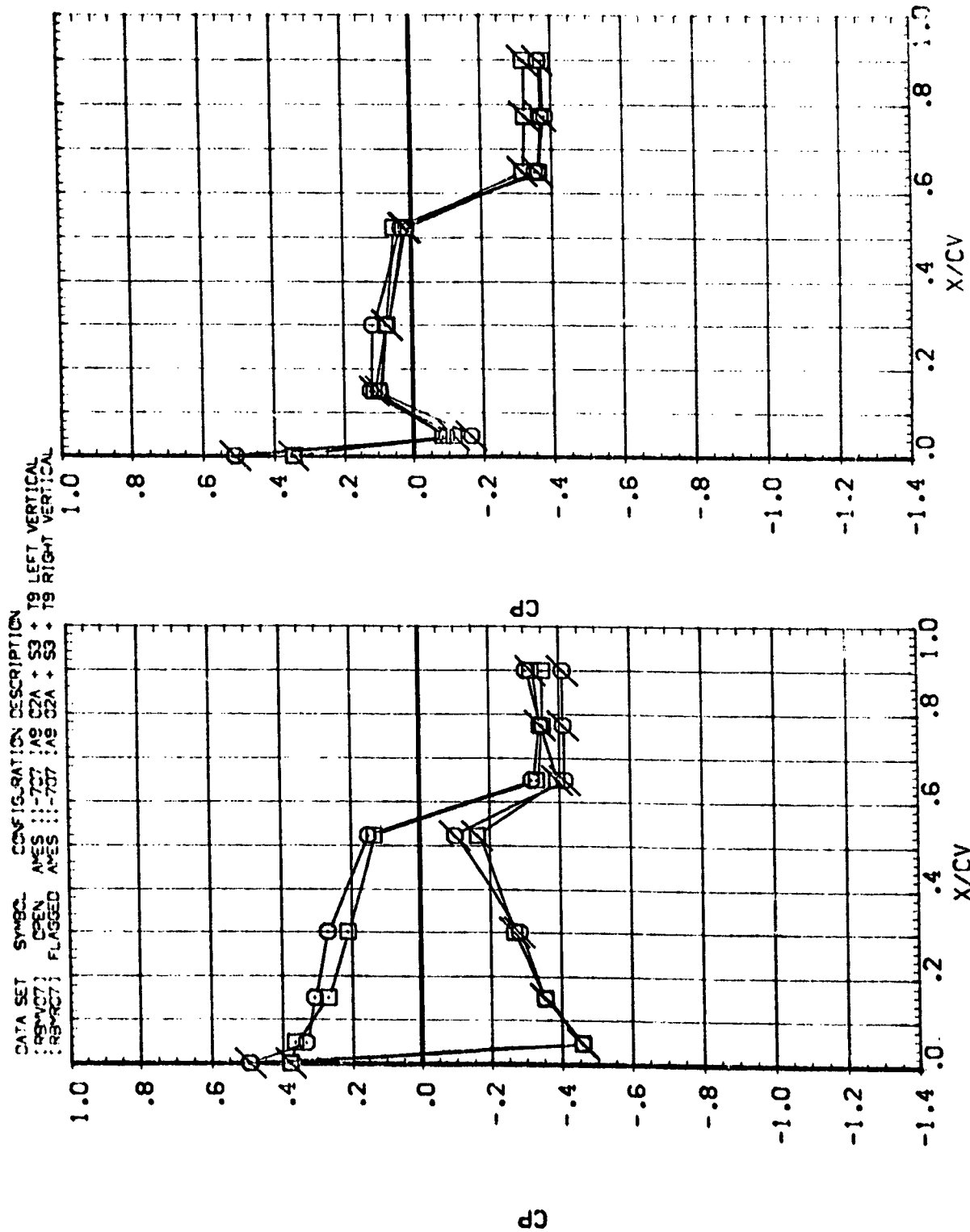


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SYMBOL Z/BV BETAT MACH
 .84C 1.395
 .925 .02C

PARAMETRIC VALUES
 .000 .500
 .000 .000
 .000 .000
 .000 .000
 .000 .000

ALPHAT
 RUDDER
 RUDLR

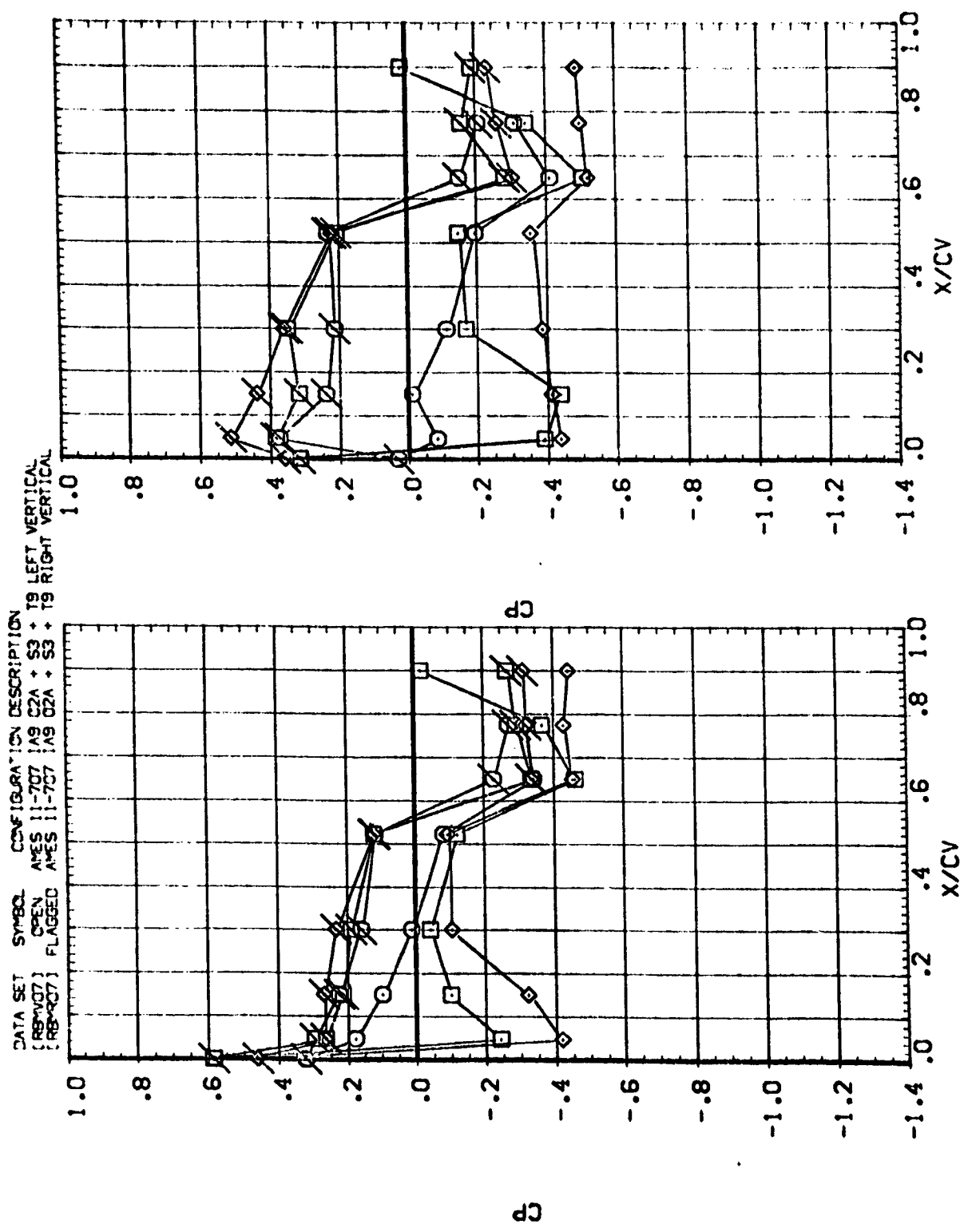


CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES



SYMBOL Z/BV BETAT MACH
0.58 4.110 1.395
0.316 2.210
0.500

PARAMETRIC VALUES
ALPHAT .000 CRBINC .500
RUDDER .000 ELEVON .000
RUDDLR .000

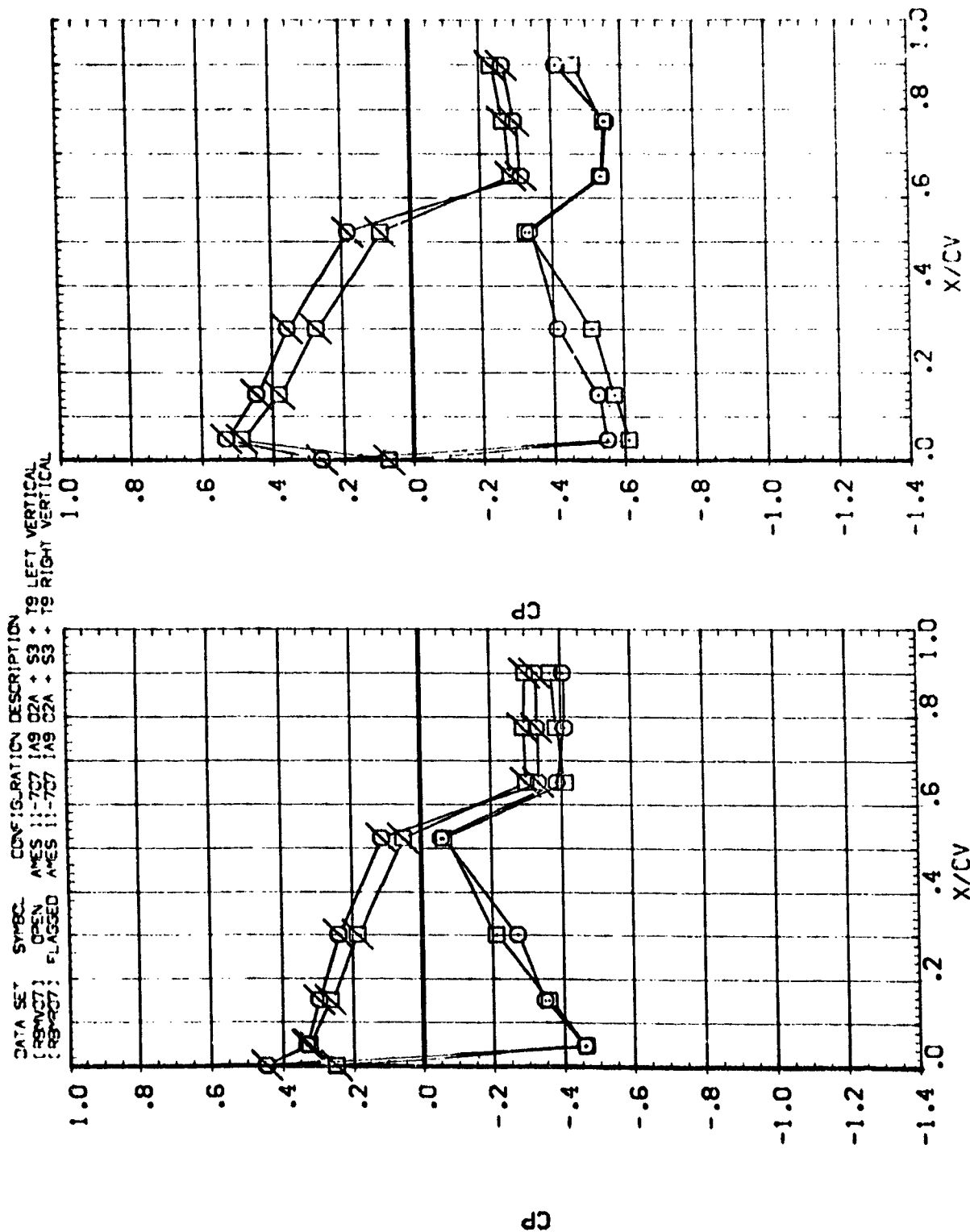


CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

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SYMBOL Z/BV BETAT MACH
 .84C 4.110 .395
 .925 8.210

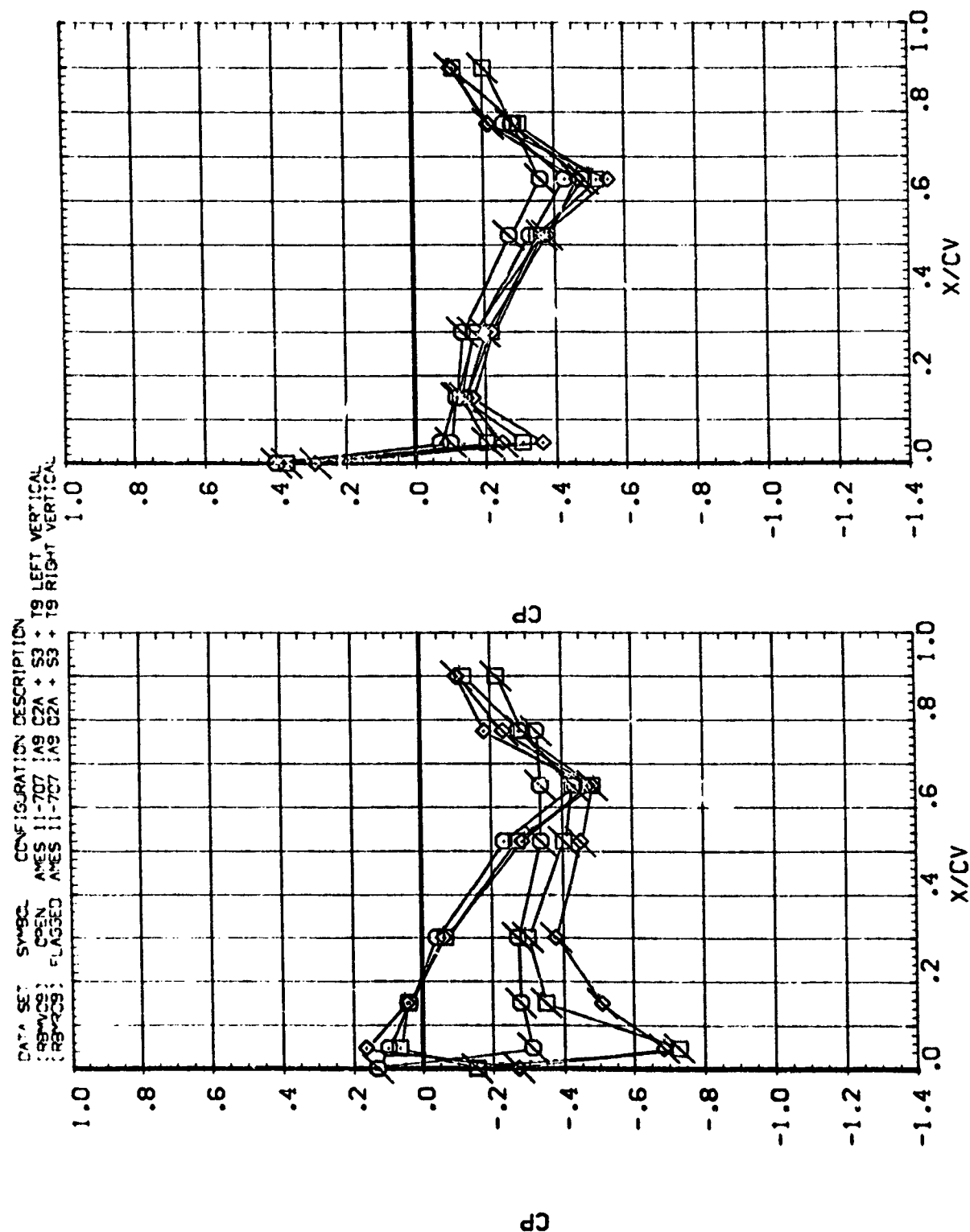
PARAMETRIC VALUES
 ALPHAT .000 ORBINC .500
 RUDDER .000 ELEVON .000
 RUJFLR .000



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

PARAMETRIC VALUES
 ALPHAT 4.000 ORBINC .500
 RUDDER .000 ELEVON .000
 RUOFLR .000

SYMBOL Z/BV BETAT MACH
 110 .158 -4.030 .598
 111 .316 .020
 112 .600

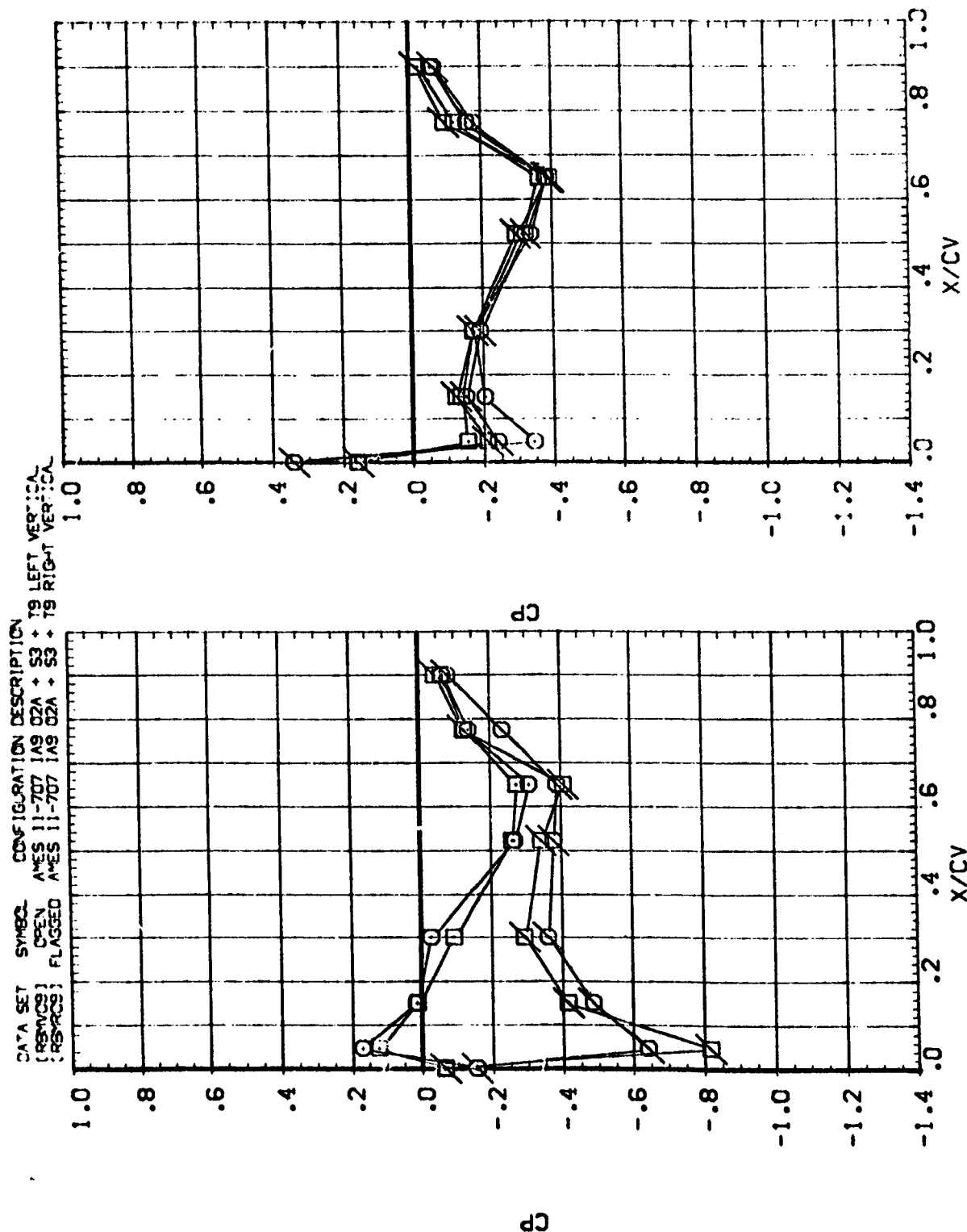


CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES



SYMBOL Z/BV BETAT MACH
.940 .598
.925 .022

PARAMETRIC VALUES
ALPHAT 4.000 CRBINC .500
RUDGER .000 ELEVON .000
RUDFLR .000



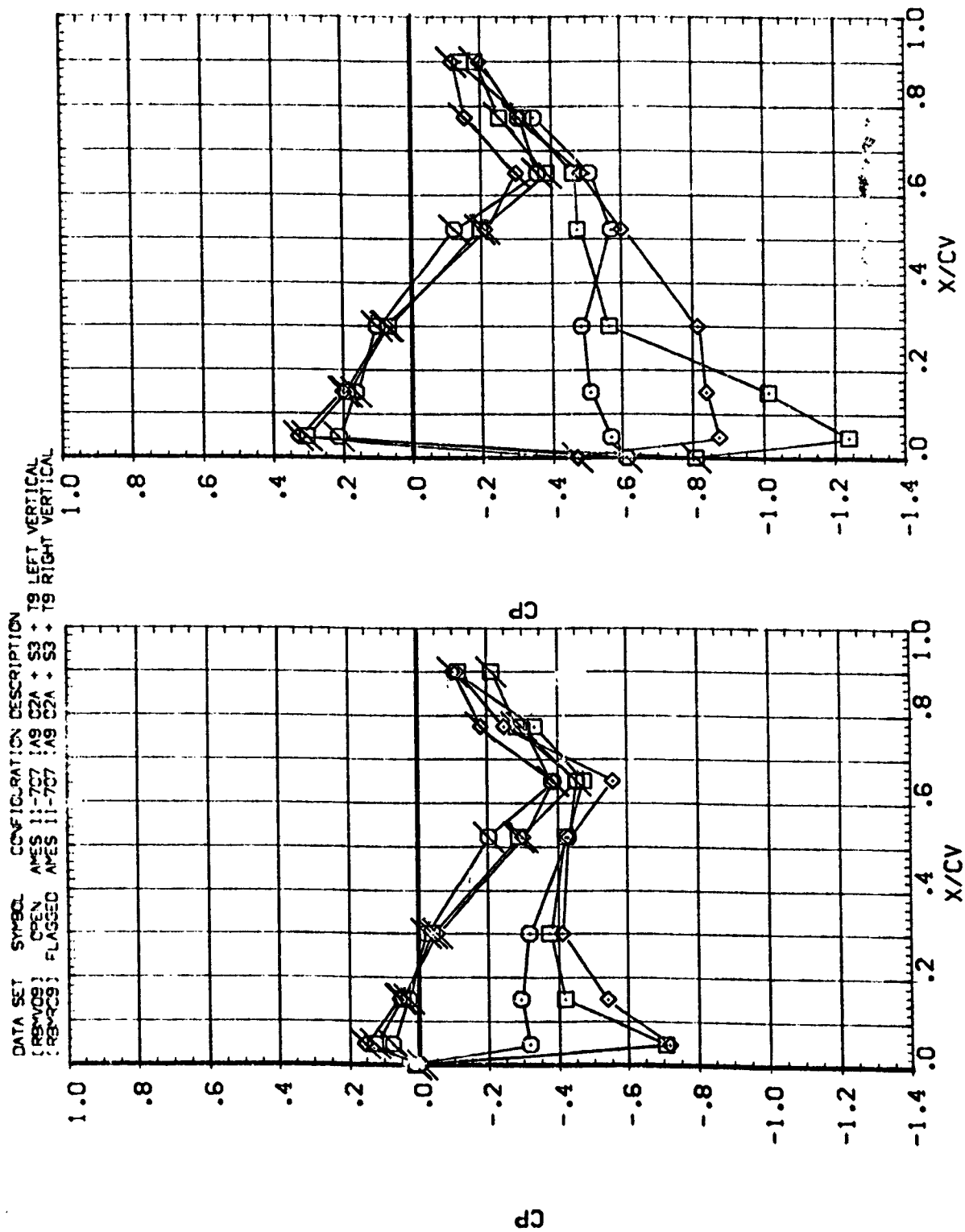
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

PARAMETRIC VALUES

ALPHAT	4.000	ORBITC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

DATA SET SYMBOL CONFIGURATION DESCRIPTION

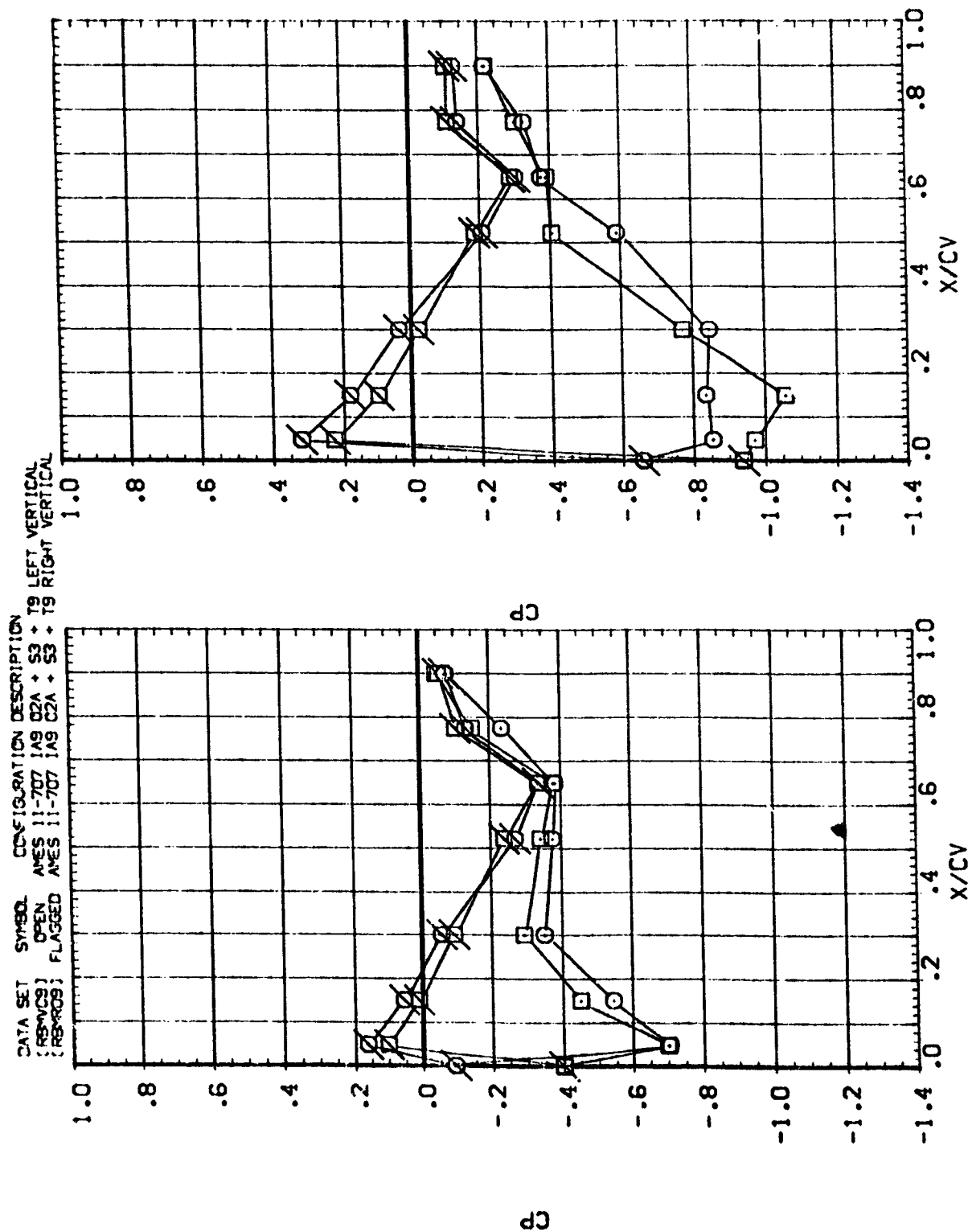
SYMBOL	Z/BV	BETAT	MACH
○	.158	4.080	.598
□	.316	8.150	
◇	.600		





SYMBOL Z/BV BETAT MACH
[] .84C 4.080 .598
[] .925 8.150

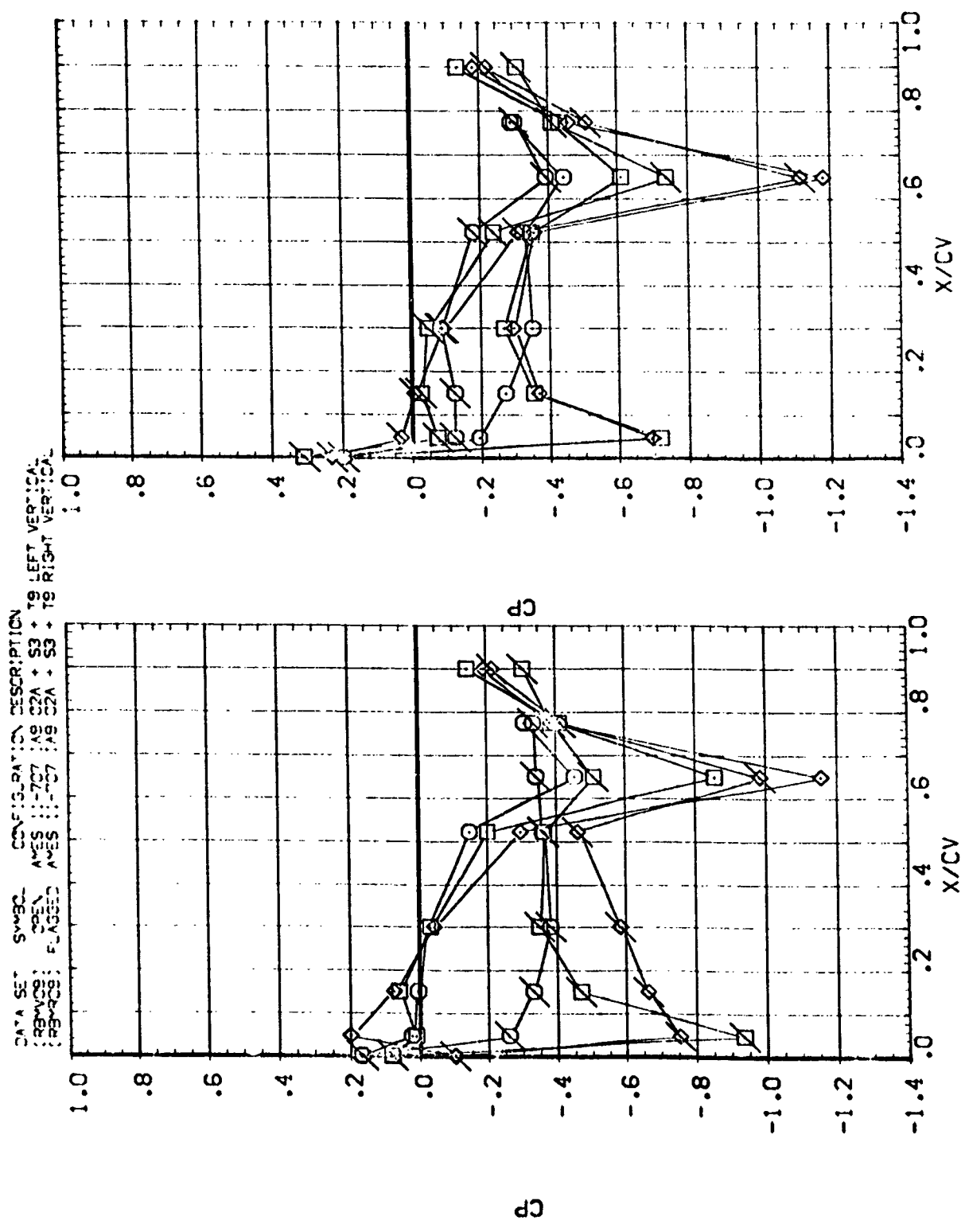
PARAMETRIC VALUES
ALPHAT 4.000 ORBINC .500
RUDDER .000 ELEVON .000
RUOFLR .000



PARAMETRIC VALUES

ALPHA	4.000	ORBIT	.500
RUDDER	.000	ELEV	.000
RUDDER	.000		

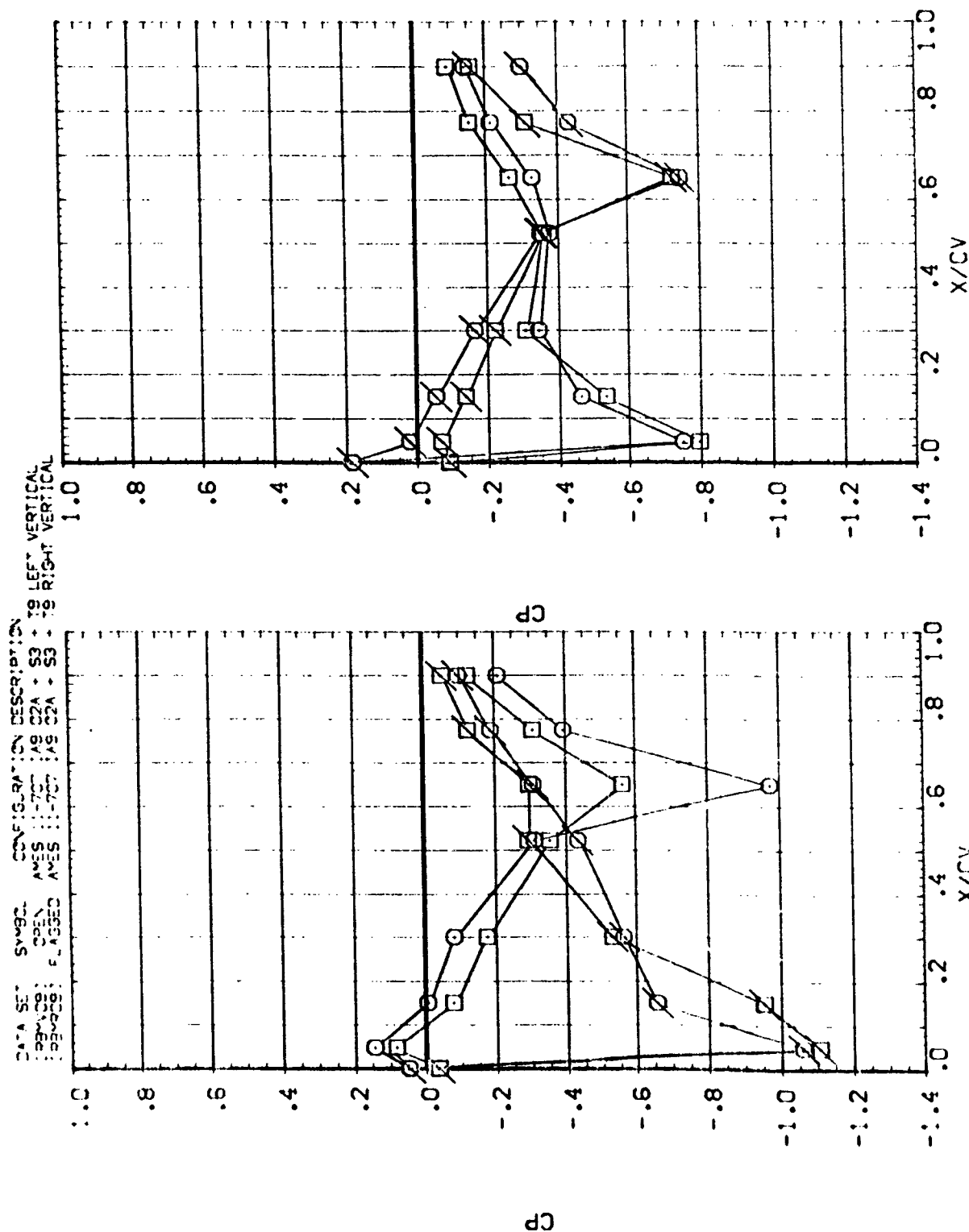
DATA SET SWBC-
 (REMOVED) OPEN AVE 11-707 (A9 C2A + S3 + T9 LEFT VERTICAL
 (REMOVED) FLAGGED AVE 11-707 (A9 C2A + S3 + T9 RIGHT VERTICAL



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

PARAMETRIC VALUES

ALPHA*	4.000	CRBINC	.000
RUDER	.000	ELEVON	.000
RUDER	.000		



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES



SYMBOL Z/BV BETAT MAC²

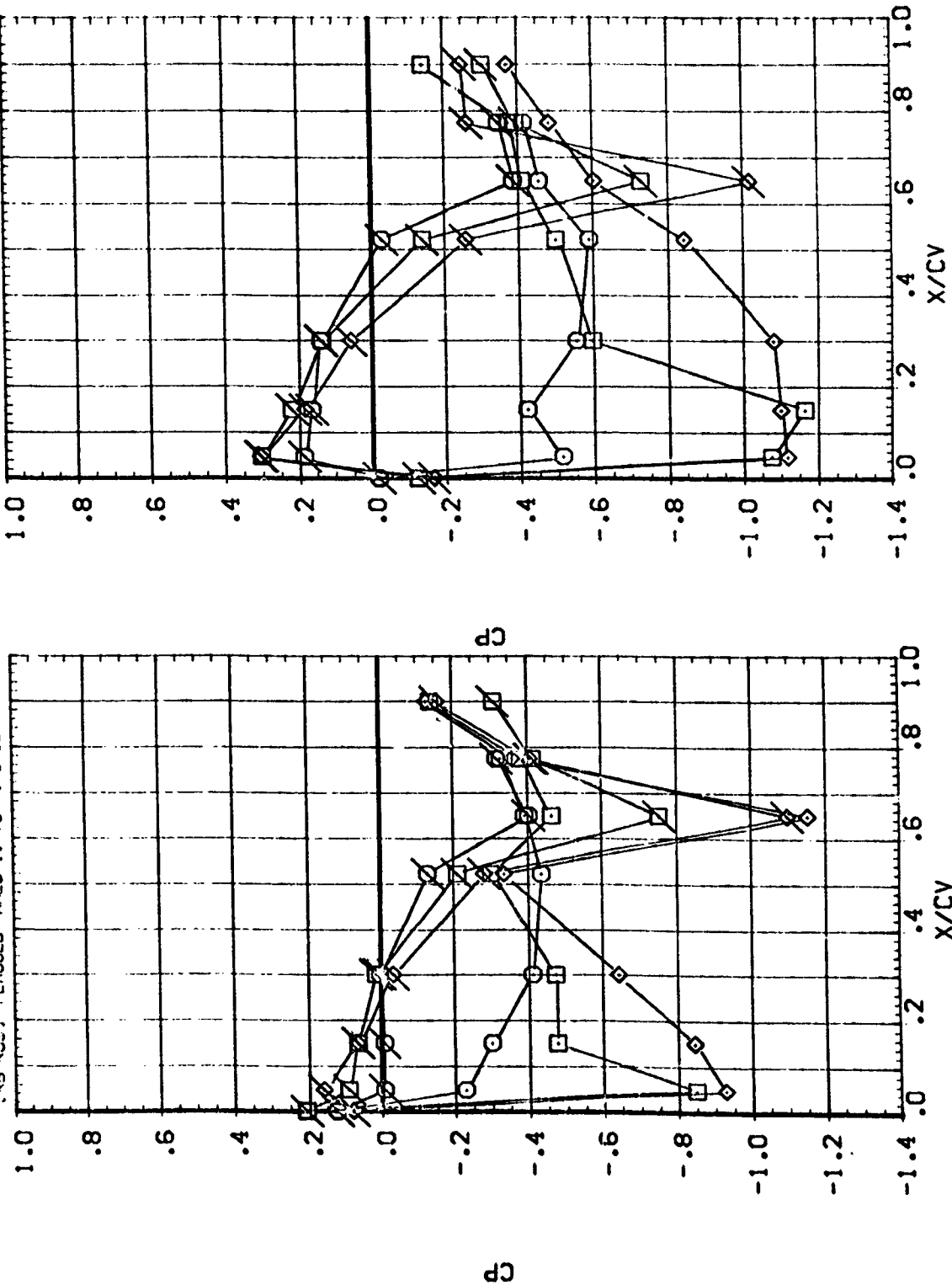
○	.158	4.130	.899
□	.316	8.240	
◇	.600		

PARAMETRIC VALUES

ALPHAT	4.000	OPRINC	.500
RUDGER	.000	ELEVON	.000
RJDFLR	.000		

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RBMVCS)	OPEN	AVES 11-707	AS 02A + S3 + 19 LEFT VERTICAL
(RBMVCS)	FLAGGED	AVES 11-707	AS 02A + S3 + 19 RIGHT VERTICAL

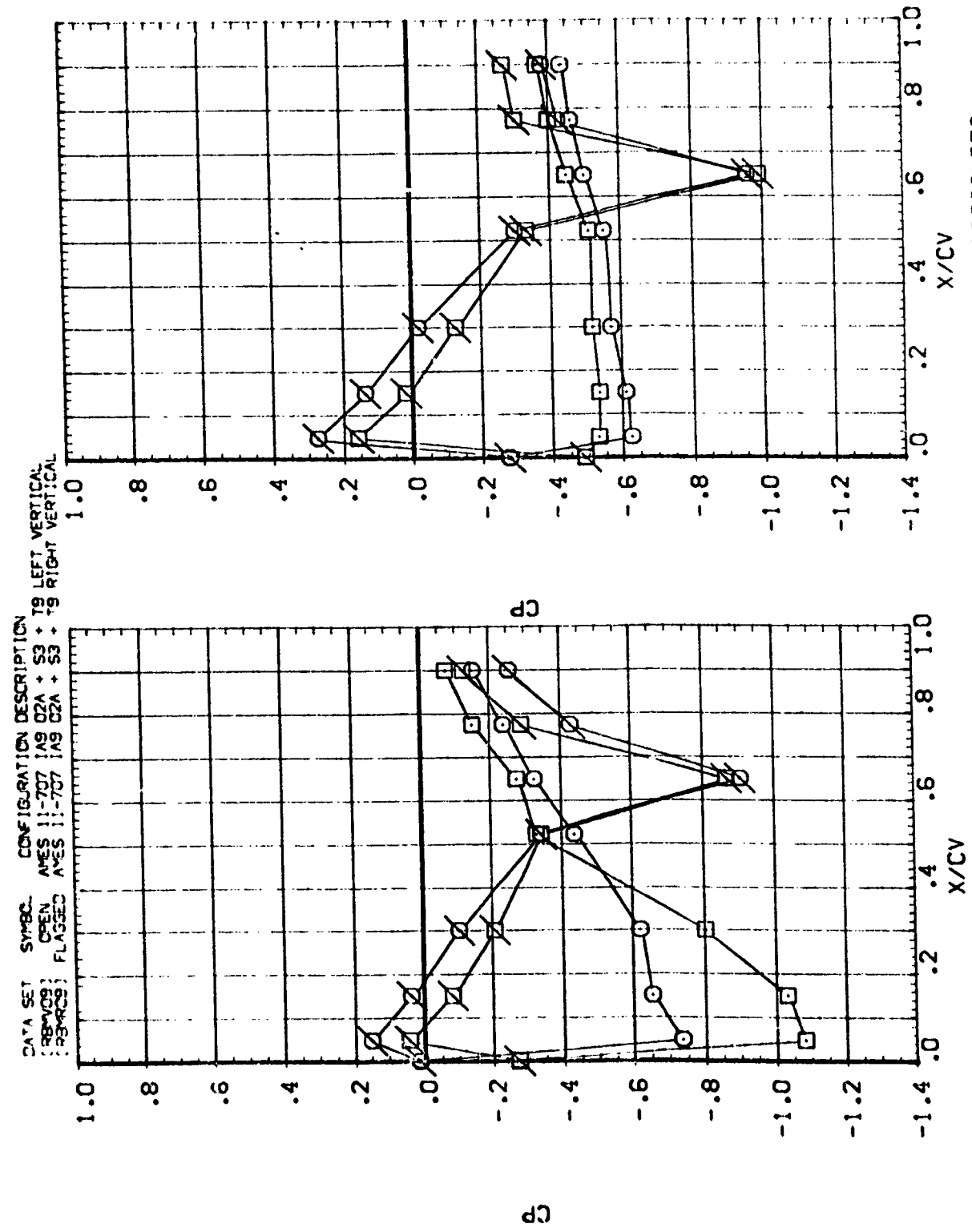


CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES



SYMBOL Z/BV BETA MACH
0.84C 4.13C .899
0.92S 8.24C

PARAMETRIC VALUES
ALPHAT 4.000 CRBINC .500
RUCOR .000 ELEVEN .000
RUCFLR .000



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES



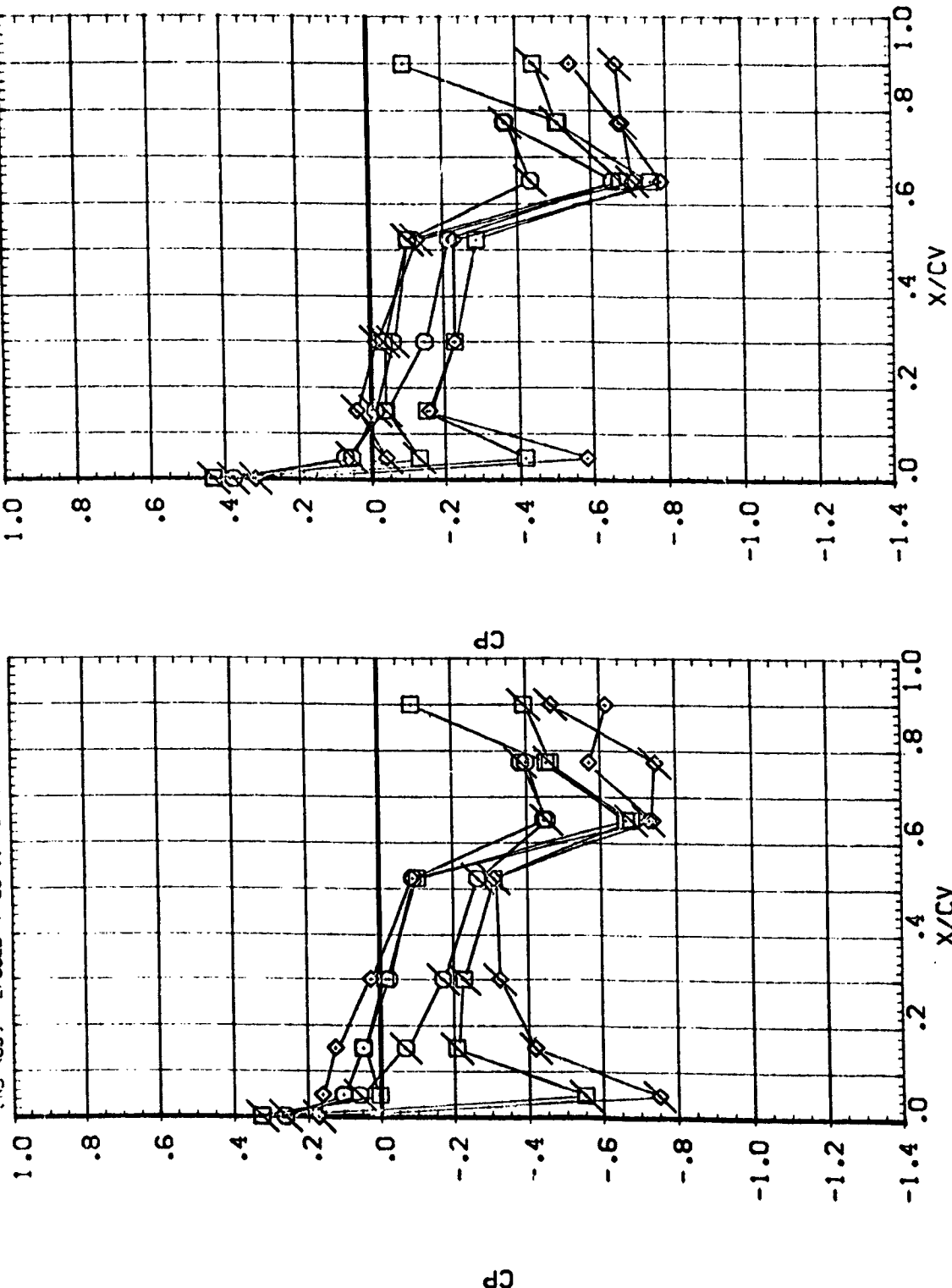
SYMBOL Z/9V
 0.58
 0.316
 0.500

BETA*
 -4.080
 2.0790

MACH
 1.133

PARAMETRIC VALUES
 ALPHAAT 4.000 ORBINC .500
 RUDDER .000 ELEVEN .000
 RUOTLR .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RBMVCS) AMES 11-707 1A9 C2A + S3 + T9 LEFT VERTICAL
 (RBMVCS) AMES 11-707 1A9 C2A + S3 + T9 RIGHT VERTICAL

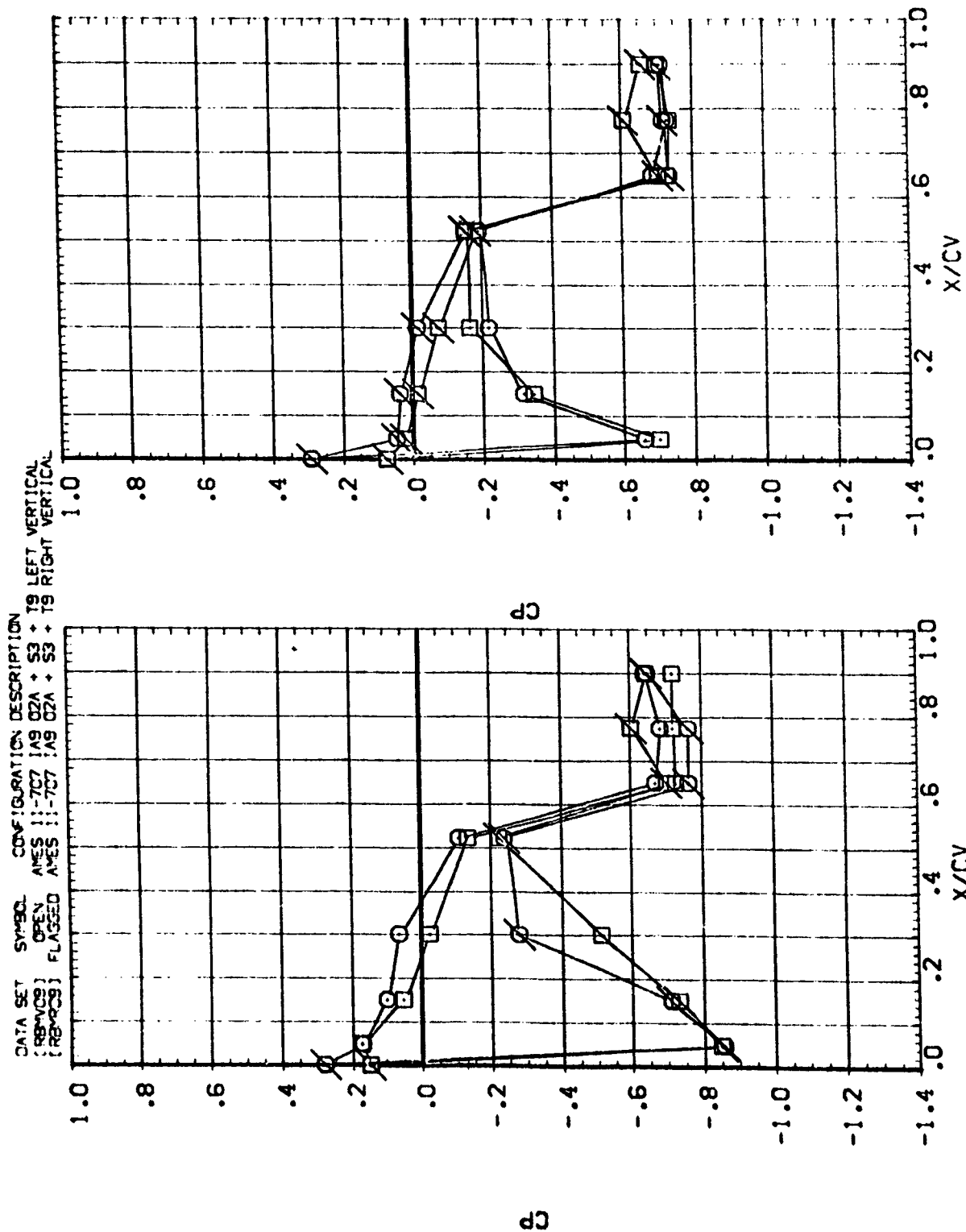


CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

III

SYMBOL Z/BV BETAT MACH
 .84C -4.08C 1.103
 .925 2.08C

PARAMETRIC VALUES
 ALPHAT 4.000 ORBINC .500
 RUDDER .000 ELEVON .000
 RUDDLR .000



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

PARAMETRIC VALUES

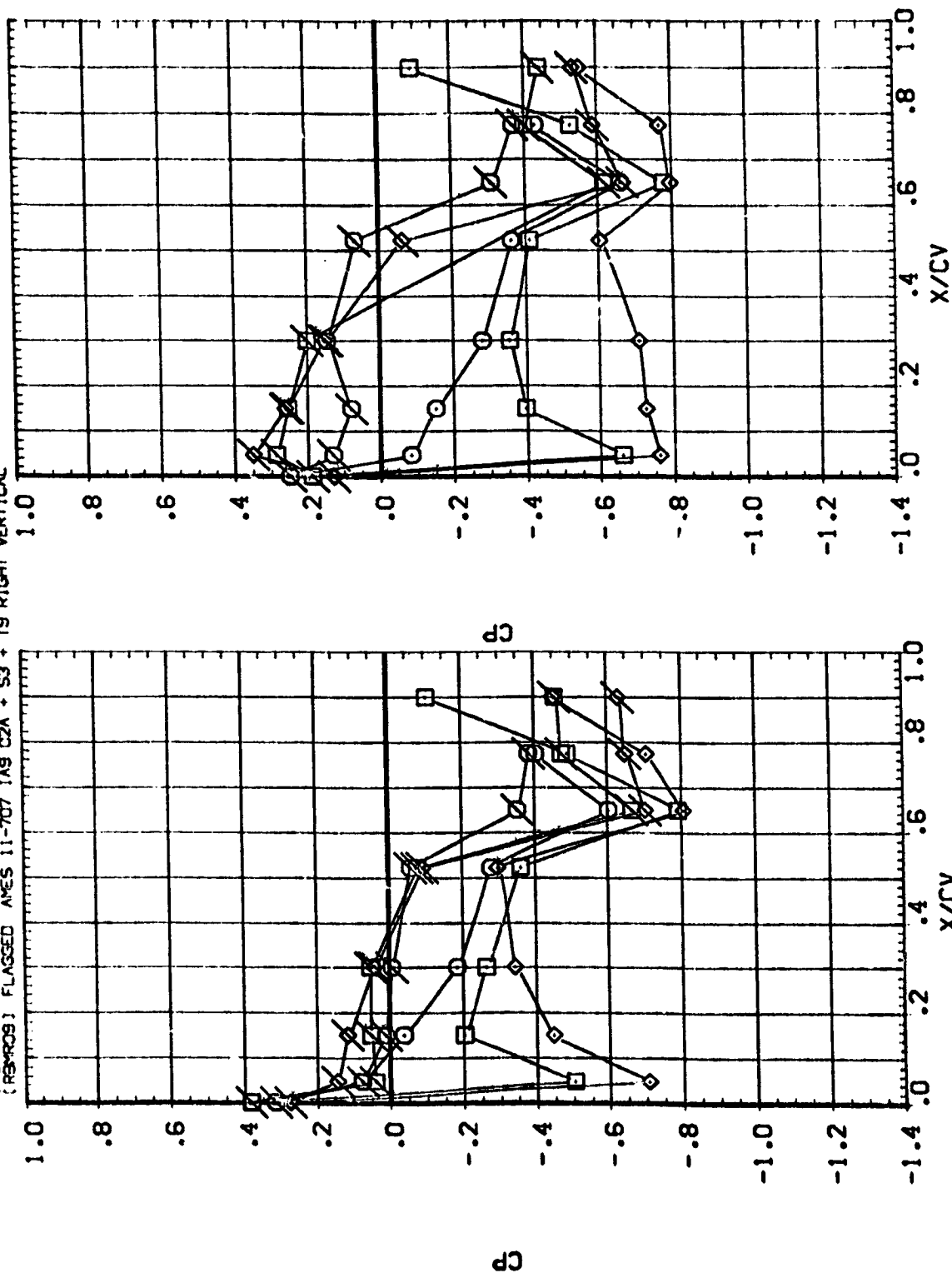
ALPHA	4.000	CRBINC	.500
RUDGER	.000	ELEVON	.000
RJOF LR	.000		

SYMBOL Z/BV BETAT MACH

○	.158	4.140	1.103
□	.316	8.260	
◇	.600		

DATA SET SYMBOL CONFIGURATION DESCRIPTION

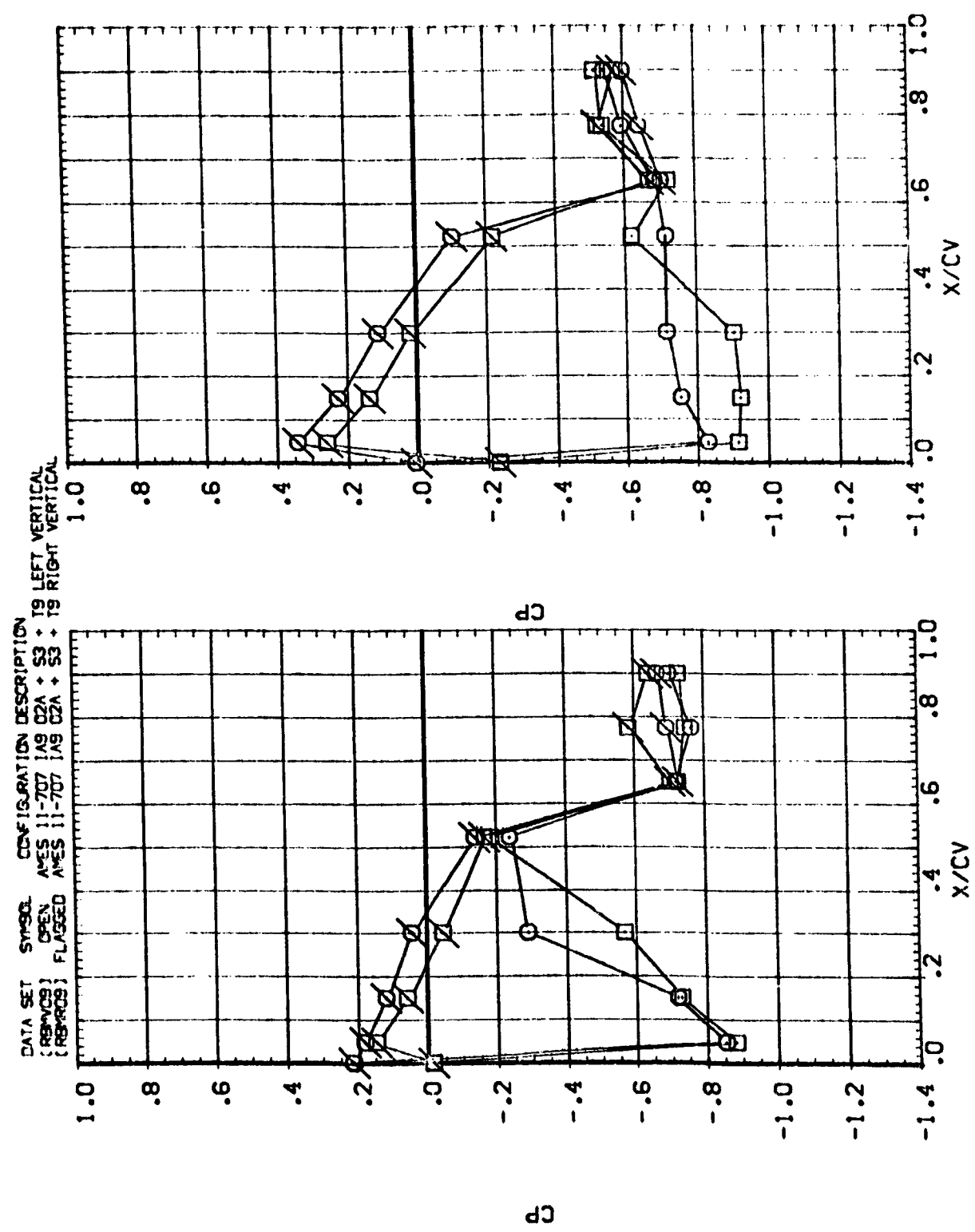
(RBMVCS)	OPEN	ANES 11-707 1A9 02A + S3 + TS LEFT VERTICAL
(RBMVCS)	FLAGGED	ANES 11-707 1A9 02A + S3 + TS RIGHT VERTICAL





SYNTHC Z/BV .840 .925
 BETAT 4.140 8.260
 MACH 1.103

PARAMETRIC VALUES
 ALPHAT 4.000
 RUDDER .000
 RUOFLR .000
 ORBITC .500
 ELEVON .000



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOLS: \square \diamond

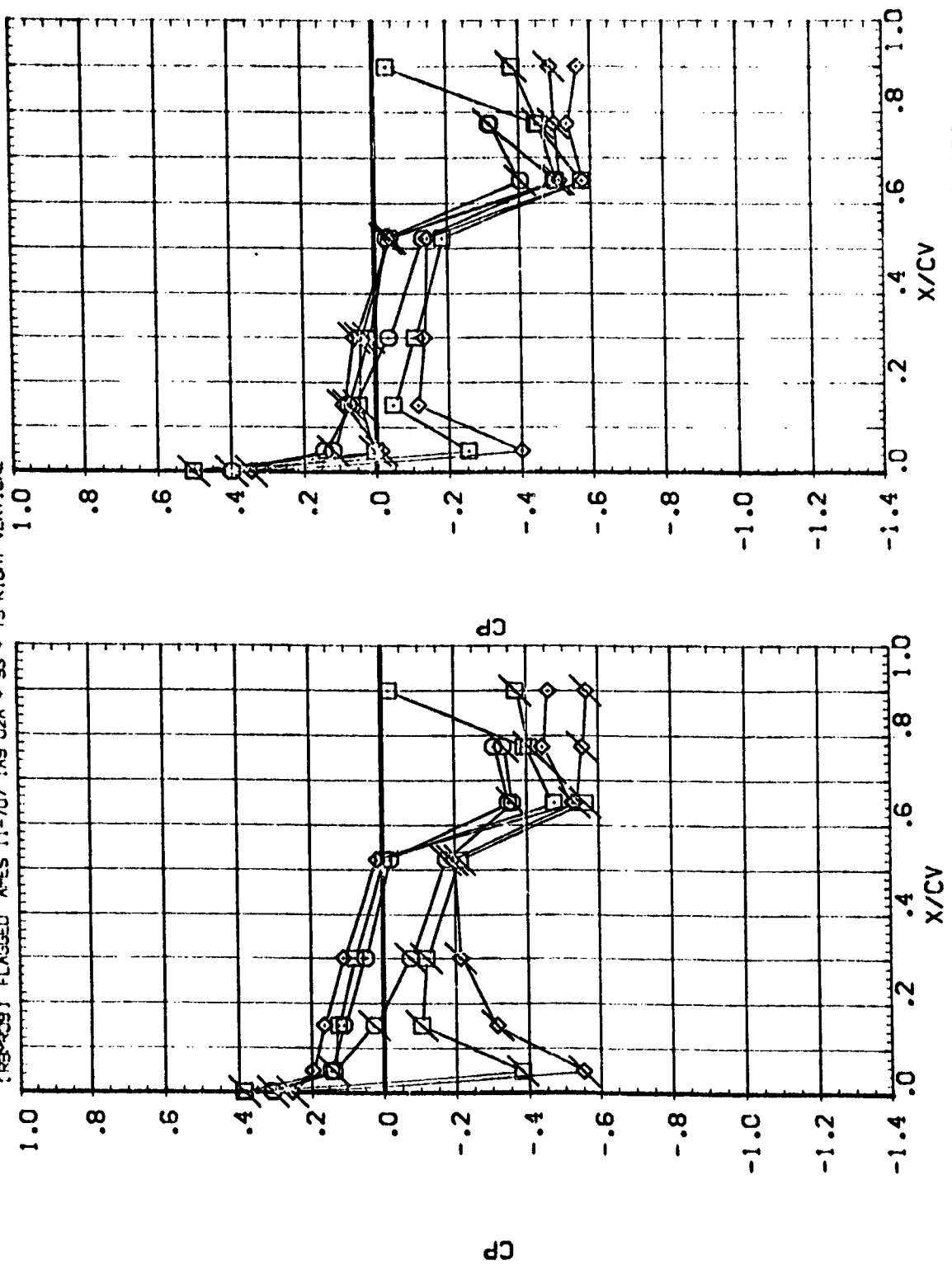
Z/BV .158
 .315
 .600

BETAT -4.060
 2.070

MACH 1.246

PARAMETRIC VALUES
 ALPHAT 4.000
 RUDDER .000
 RUDDLR .000
 CRBINC .500
 ELEVON .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RBMVCS) OPEN ANES 11-707 (A9 02A + S3 + T9 LEFT VERTICAL
 (RBMVCS) FLAGGED ANES 11-707 (A9 02A + S3 + T9 RIGHT VERTICAL

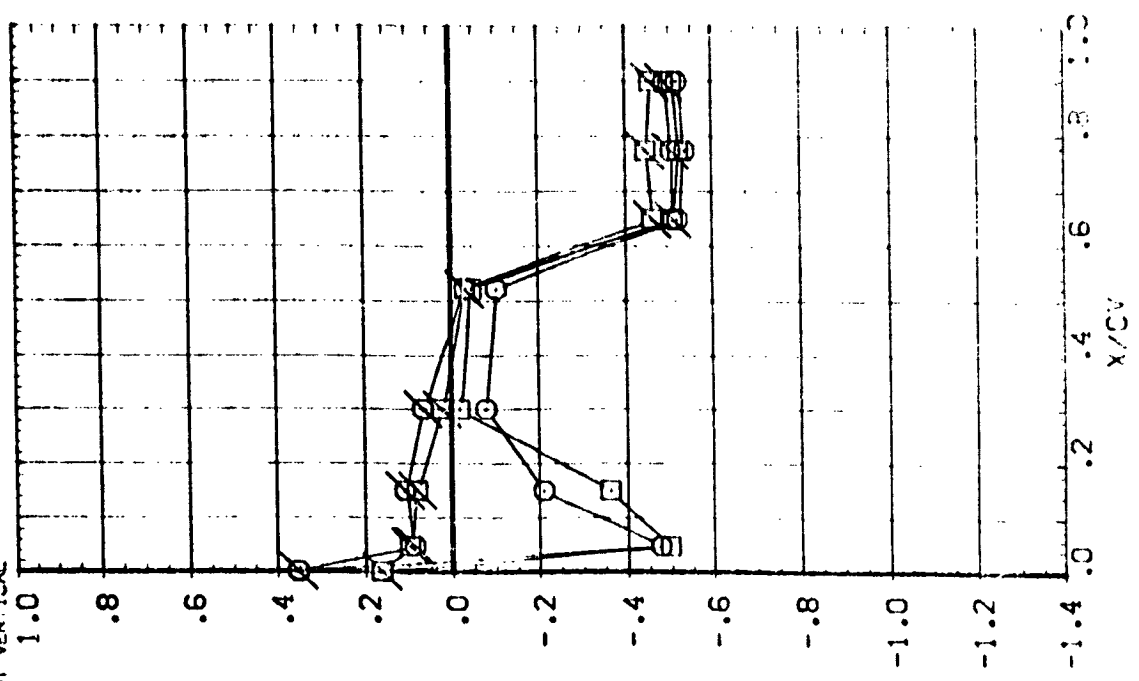
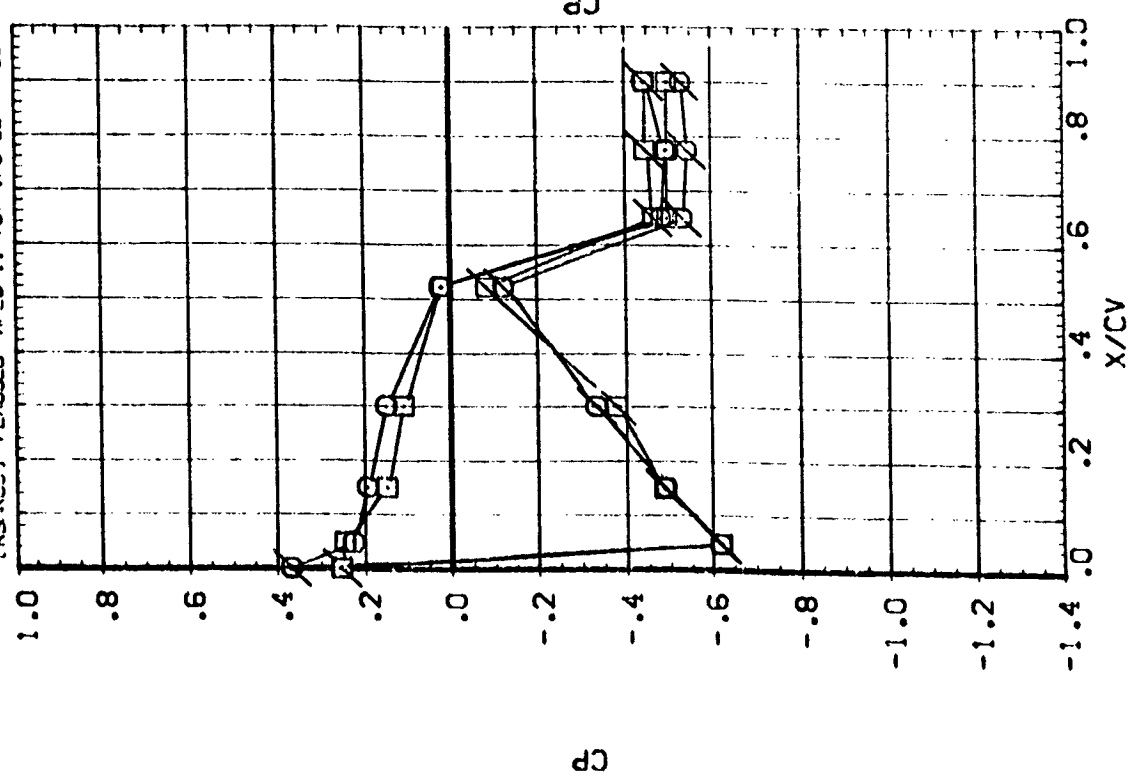




SYMBOL Z/BN BETAT MACH
 () .84C -4.080 1.246
 () .925 2.070

PARAMETRIC VALUES
 ALPHAT 4.000 DRBINC .500
 RUDDER .000 ELEVON .000
 RUFLR .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RSMV08) OPEN AMES 11-707 (A9 02A + S3 + T8 LEFT VERTICAL
 (RSMV09) FLAGGED AMES 11-707 (A9 02A + S3 + T8 RIGHT VERTICAL



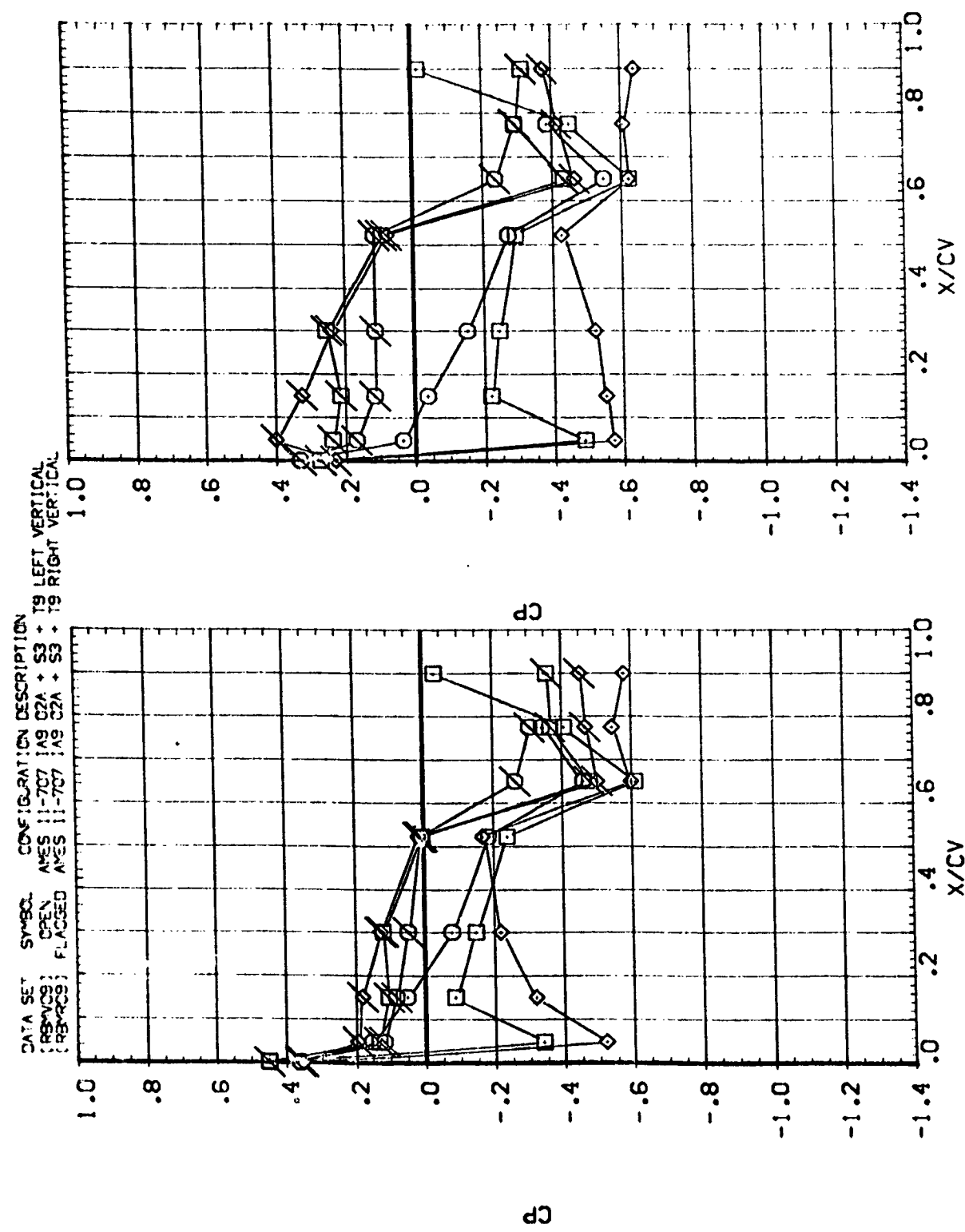
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

0.10



SYMBOL Z/BV BETAT MACH
 .158 4.110 1.246
 .316 8.210
 .600

PARAMETRIC VALUES
 ALPHAT 4.000 ORBINC .500
 RUDDER .000 ELEVON .000
 RUOFLR .000



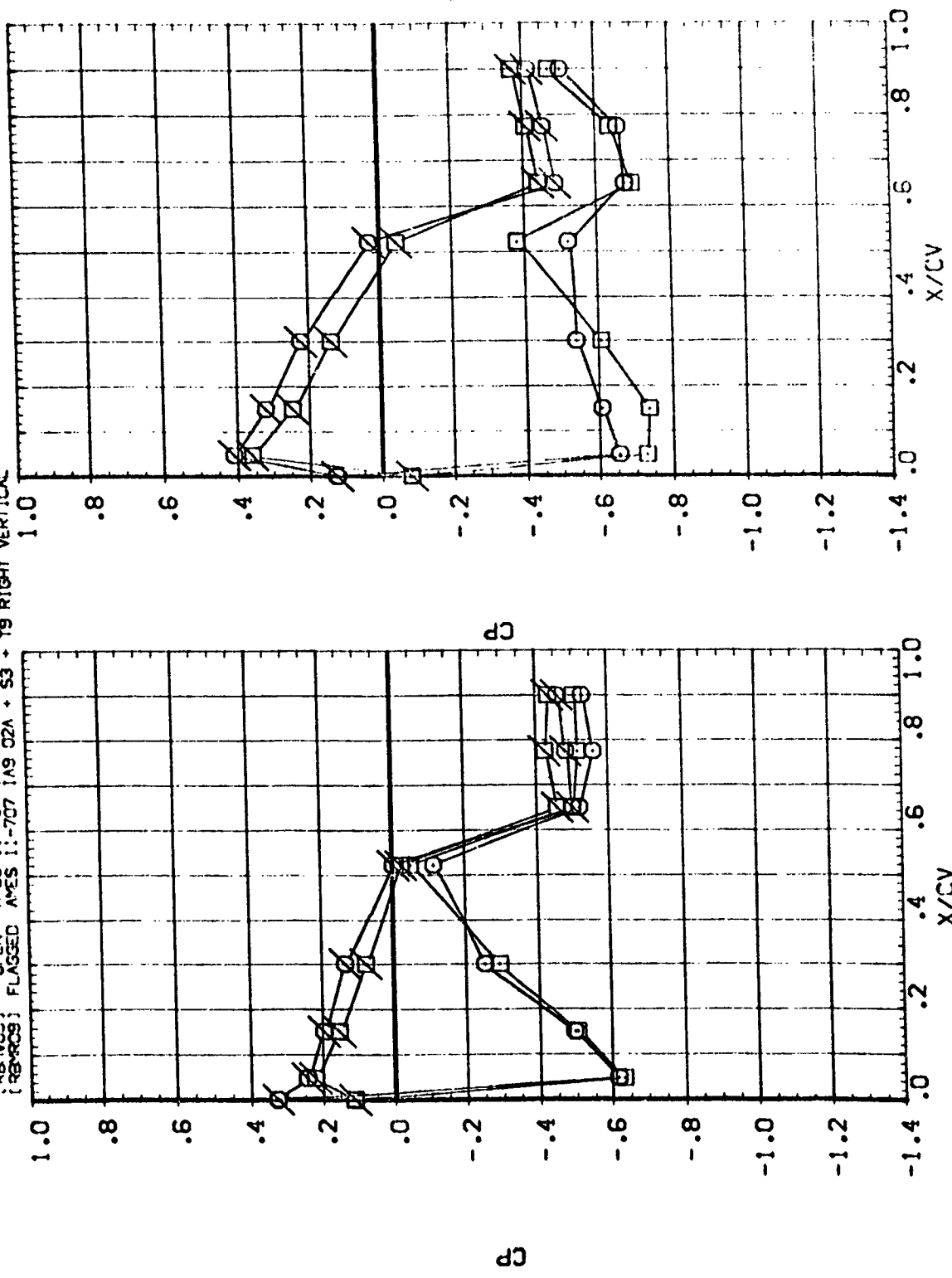
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES



SYMBOL Z/BV BETAT MACH
O .840 4.110 1.246
□ .925 8.210

PARAMETRIC VALUES
ALPHAT 4.000 CDBINC .500
RCDJR .000 ELEVON .000
RDOFLR .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(REMOVED) OPEN AMES 1:-707 [A9 O2A + S3 + T9 LEFT VERTICAL
(REMOVED) FLAGGED AMES 1:-707 [A9 O2A + S3 + T9 RIGHT VERTICAL



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

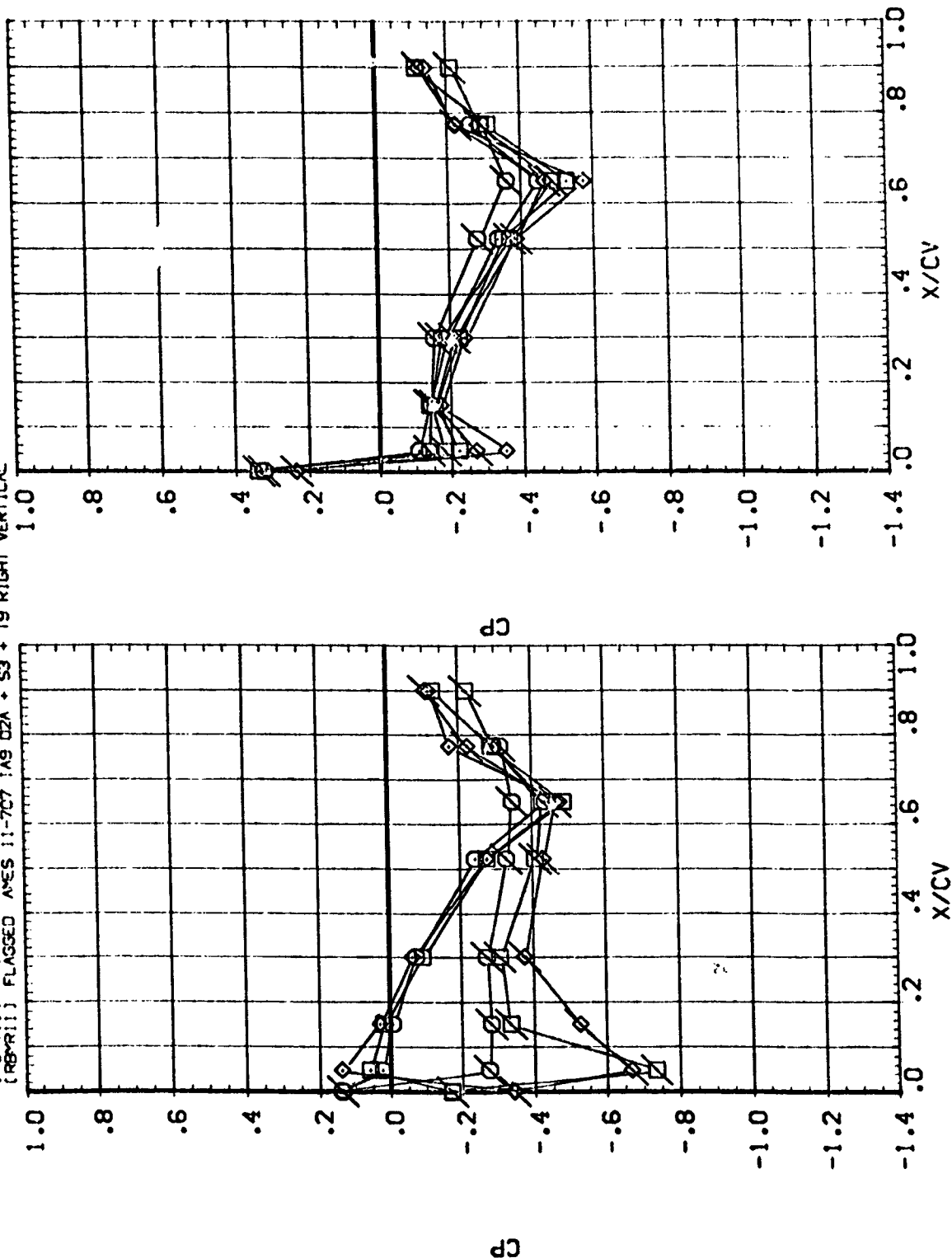
SYMBOL Z/BV .158 .316 .600
 O O O

BETAT -4.010 .020

MACH .599

PARAMETRIC VALUES
 ALPHA 8.000 GRBINC .500
 RODER .000 ELEVON .000
 RUDFLR .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RBV) OPEN ASES 11-707 A9 C2A + S3 + T9 LEFT VERTICAL
 (RBV) FLAGGED ASES 11-707 A9 C2A + S3 + T9 RIGHT VERTICAL



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

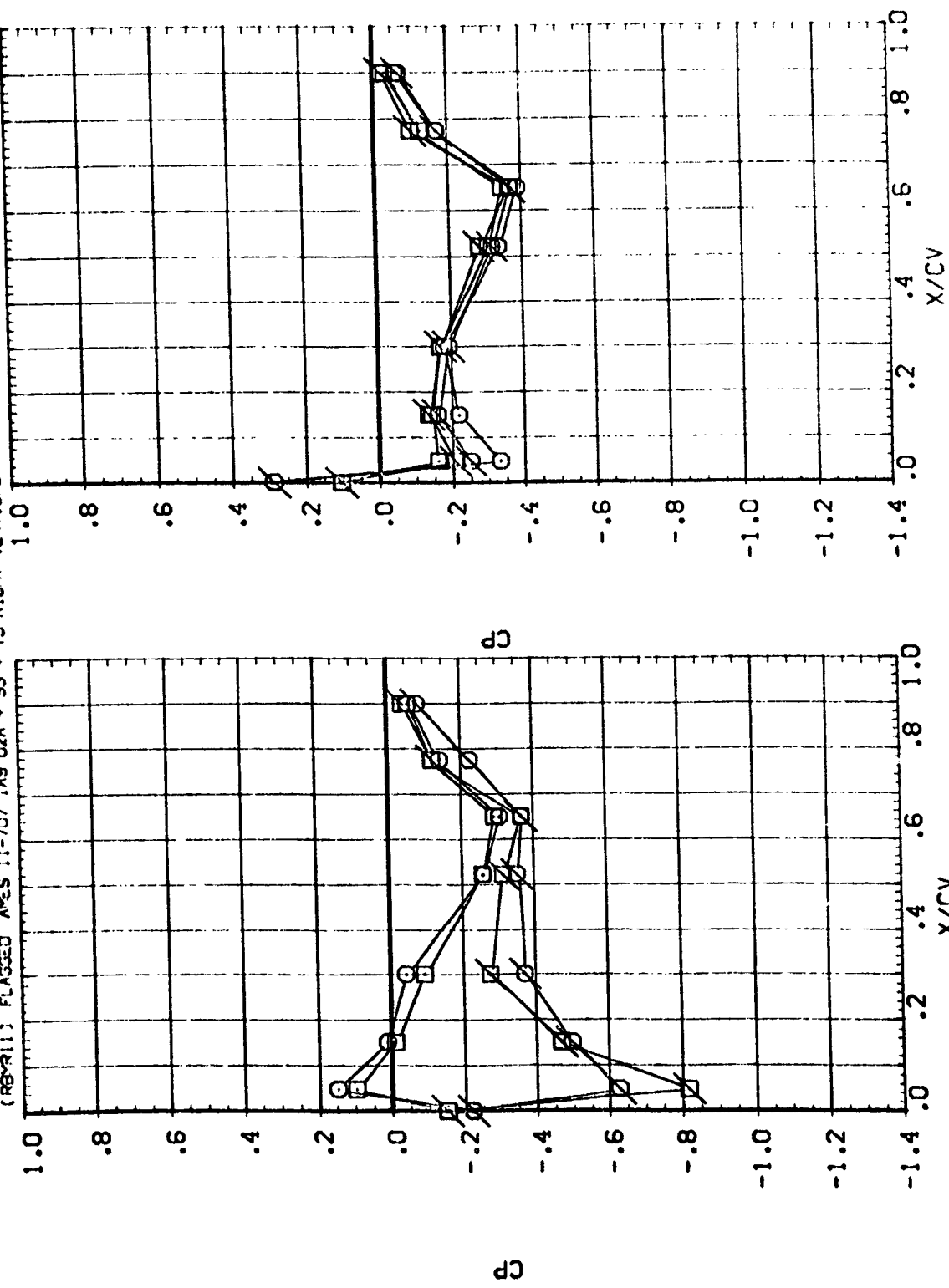


SYMBOL Z/BV .84C .925
O O

BETAT -4.01C .C20
MACH .599

PARAMETRIC VALUES
ALPHA 8.000
RUDER .000
RUDLR .000
ORBITC .500
ELEVCH .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(RBNV111) OPEN AYES 11-707 1A9 02A + S3 + T9 LEFT VERTICAL
(RBNV111) FLAGGED AYES 11-707 1A9 02A + S3 + T9 RIGHT VERTICAL



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES
PAGE 805



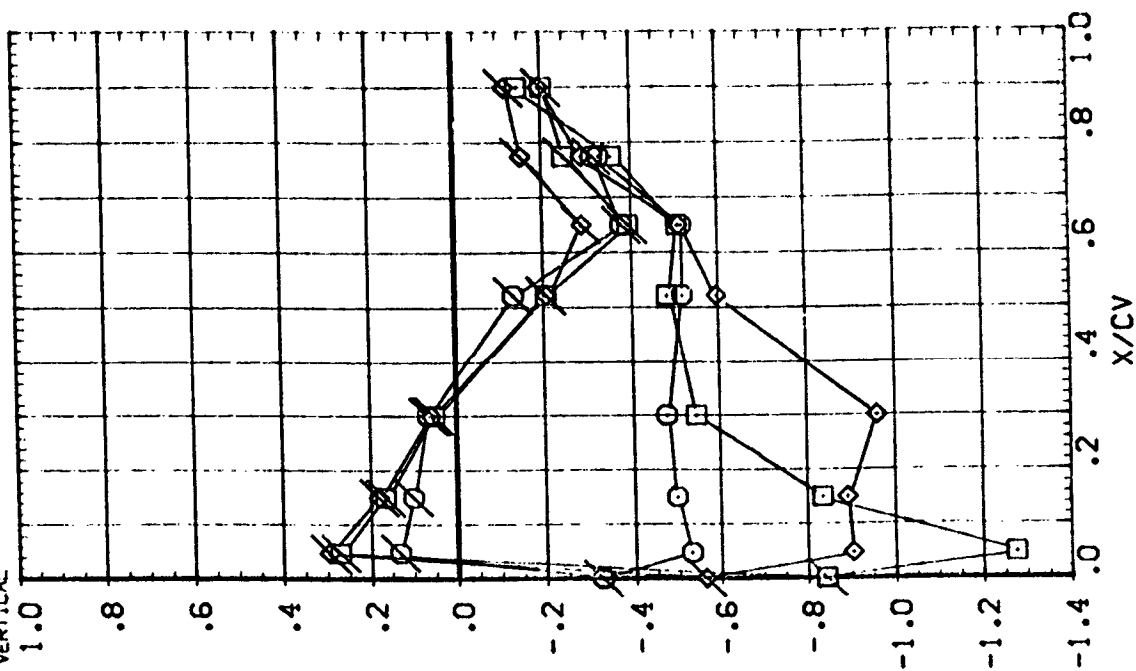
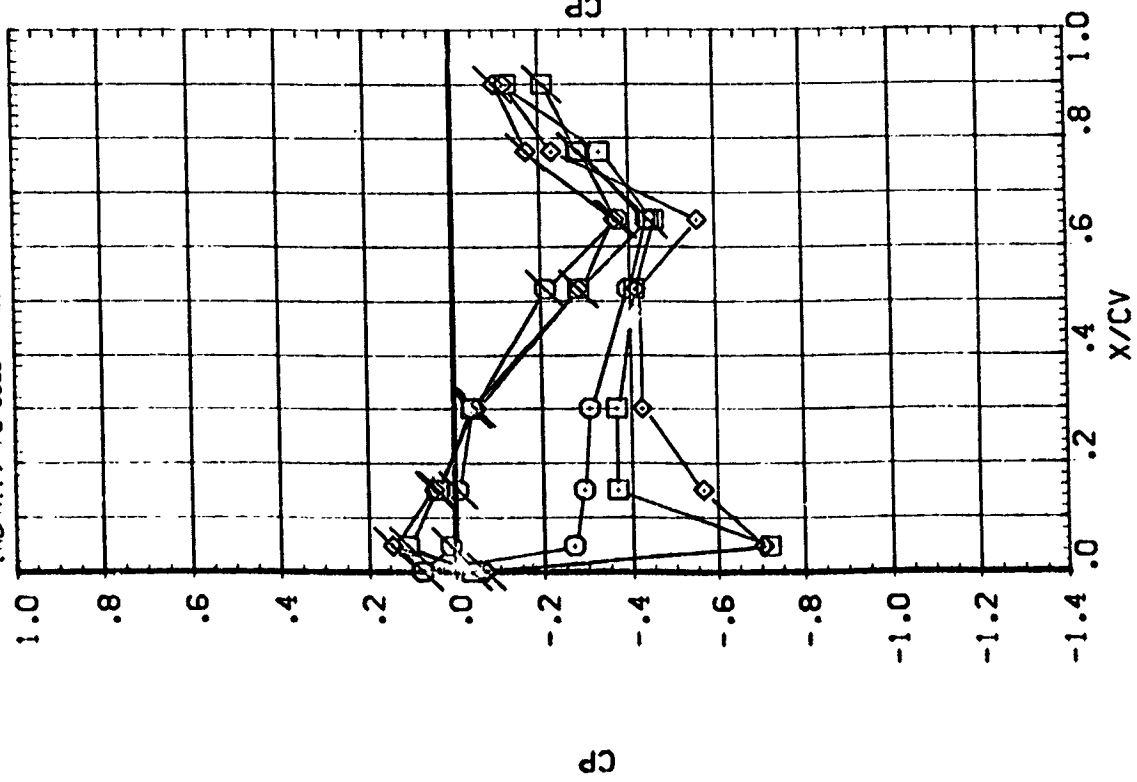
SYMBOL Z/BV
 0.150
 0.316
 0.600

BETA
 4.100
 6.190

MACH
 .599

PARAMETRIC VALUES
 ALPHAT 8.000
 RUDDER .000
 RUDDLR .000
 CRBINC .500
 ELEVON .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 [REPRV:11] OPEN AMES 11-707 [A9 02A + S3 + T8 LEFT VERTICAL
 [REPR:11] FLAGGED AMES 11-707 [A9 02A + S3 + T9 RIGHT VERTICAL

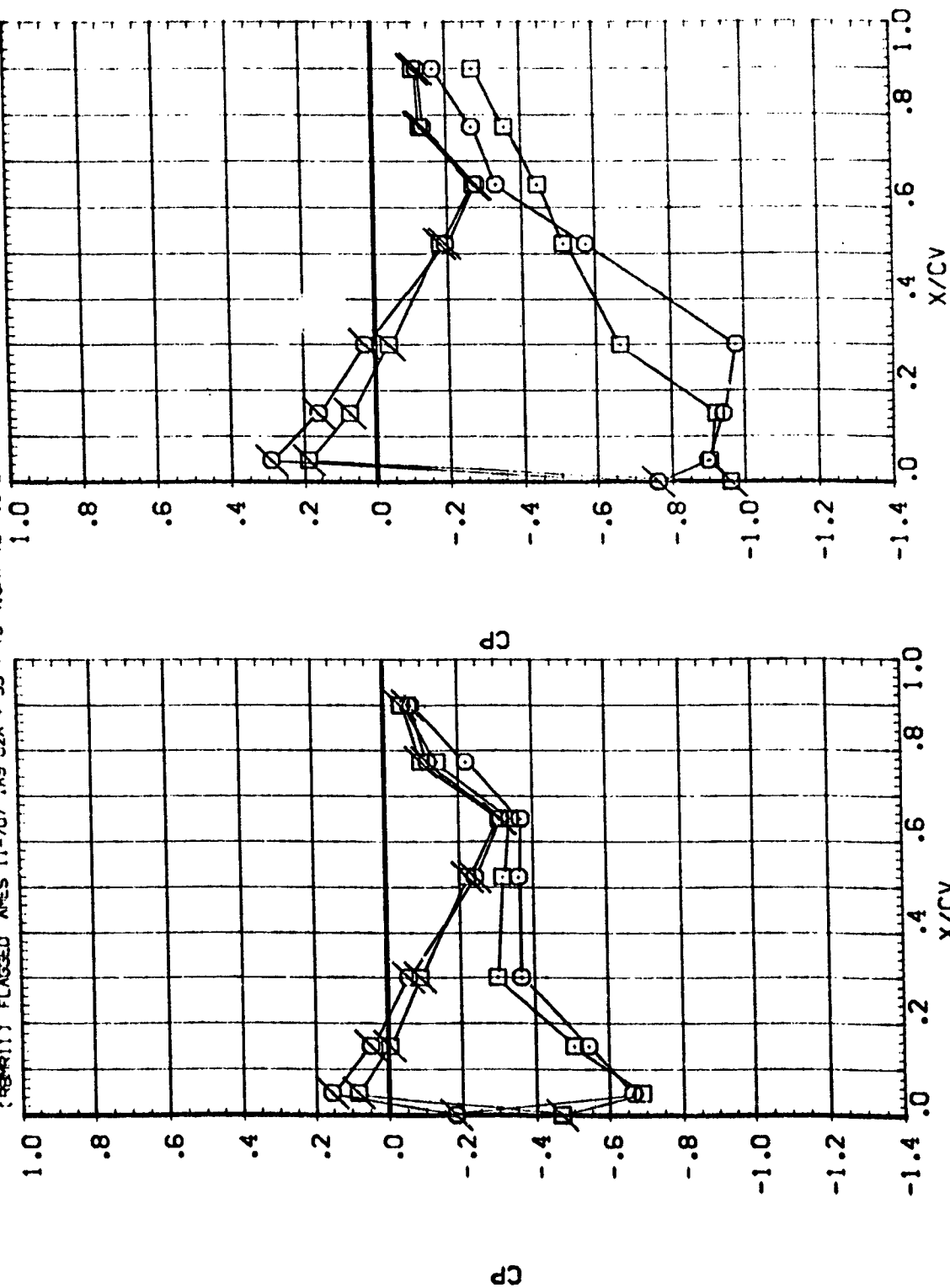




SYMBOL Z/BV .84C .925
BETAT 4.10C 8.19C
MACH .599

PARAMETRIC VALUES
ALPHA 8.00C
RUDER .00C
RUDFLR .00C
DRBINC .50C
ELEVON .00C

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(RBMV) OPEN ANES 11-707 1A9 02A + S3 + T9 LEFT VERTICAL
(RBMV) FLAGGED ANES 11-707 1A9 02A + S3 + T9 RIGHT VERTICAL



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

PARAMETRIC VALUES

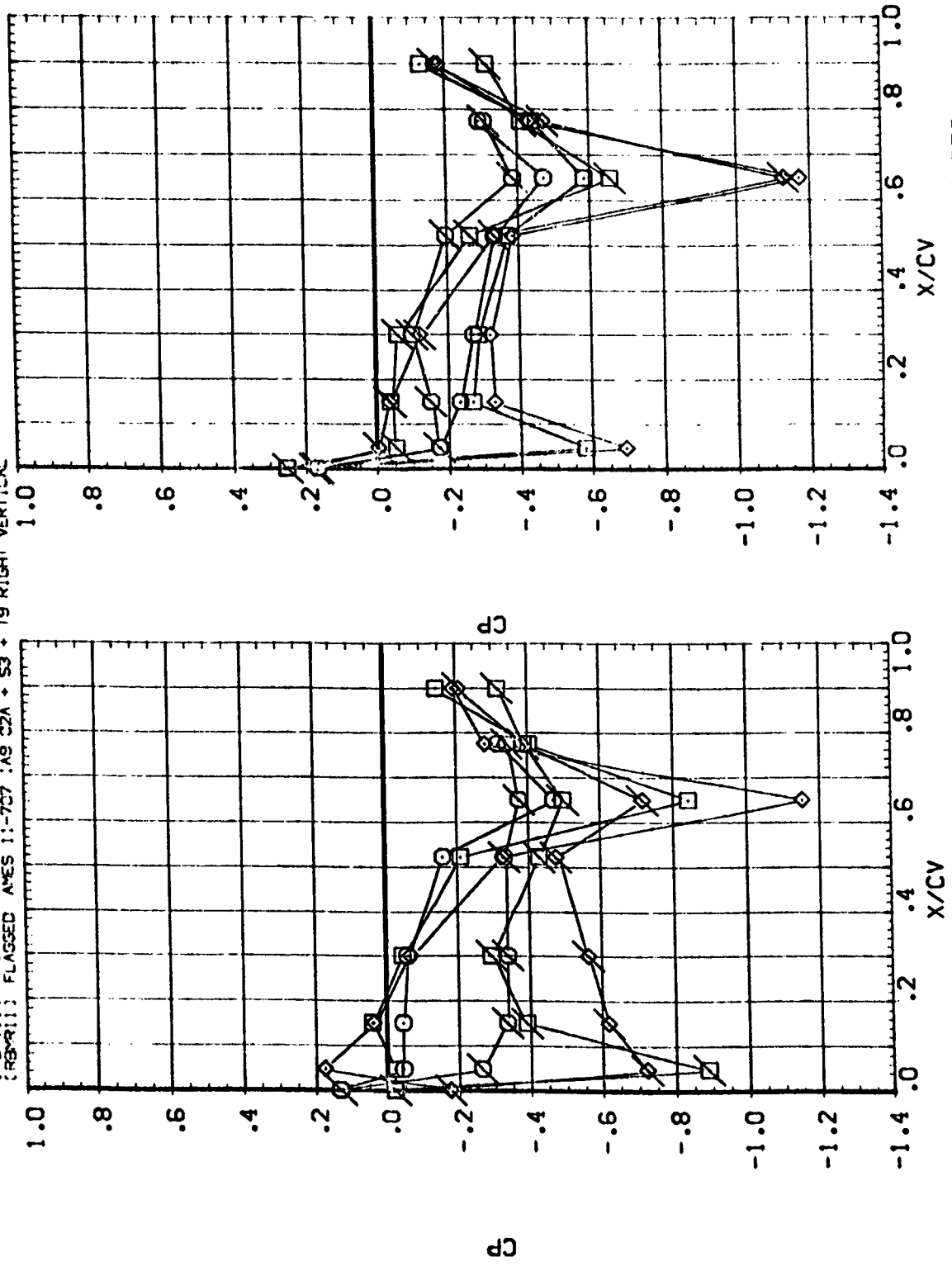
ALPHAT	8.000	CRBINC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

SYMBOL Z/BV BETAT MACH

○	.158	-4.060	.900
□	.316	2.080	
◇	.600		

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RSMV:1)	OPEN	ANES 11-707 :AS C2A + S3 + T9 LEFT VERTICAL
(RSMV:1)	FLAGGED	ANES 11-707 :AS C2A + S3 + T9 RIGHT VERTICAL

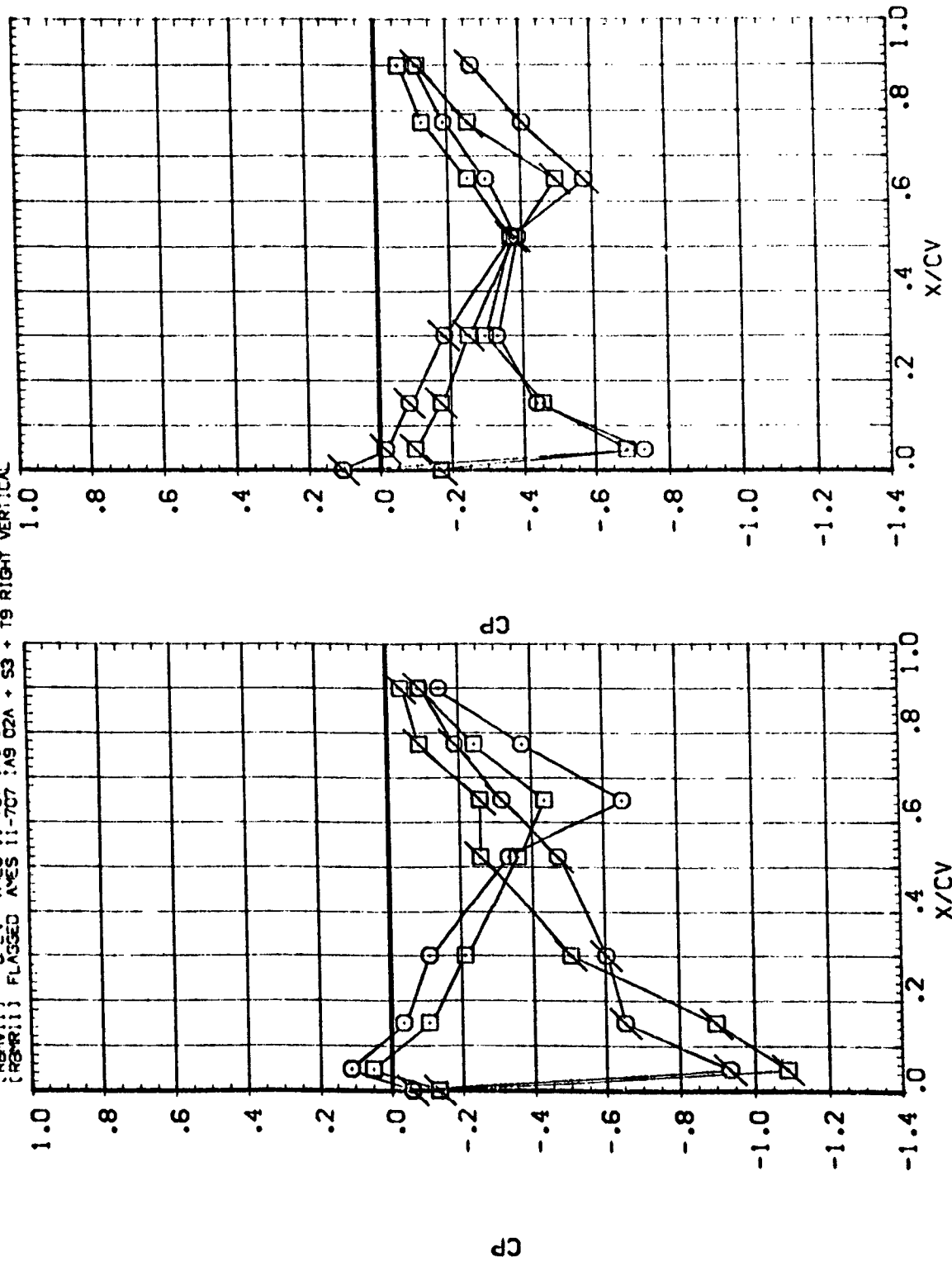




SYMBOL Z:BN BETAT MACH
O .840 -4.060 .900
□ .925 2.08C

PARAMETRIC VALUES
ALPHAT 8.000 CSBJNC .500
RUDDER .000 ELEVON .000
RJOFLR .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
[RBMV:] OPEN AVES 11-707 [A9 02A + S3 + T8 LEFT VERTICAL
[RBMV:] FLAGGED AVES 11-707 [A9 02A + S3 + T8 RIGHT VERTICAL

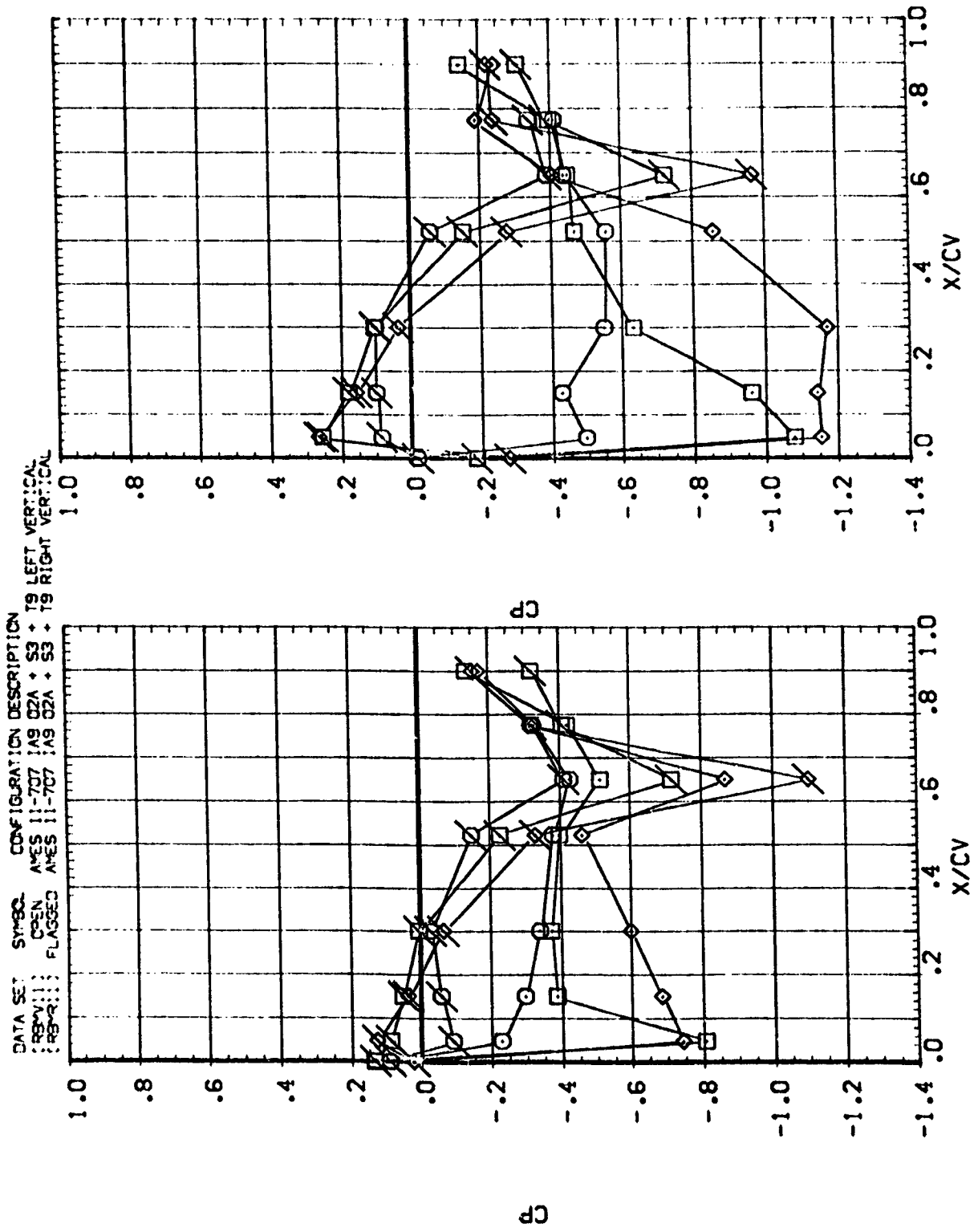


CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES



SYMBOL Z/BV BETA² MACH
 ○ .158 4.150 .900
 □ .315 8.280
 ◇ .600

PARAMETRIC VALUES
 ALPHA² 8.000 ORBINC .500
 RUDDER .000 ELEVON .000
 RJOFLR .000

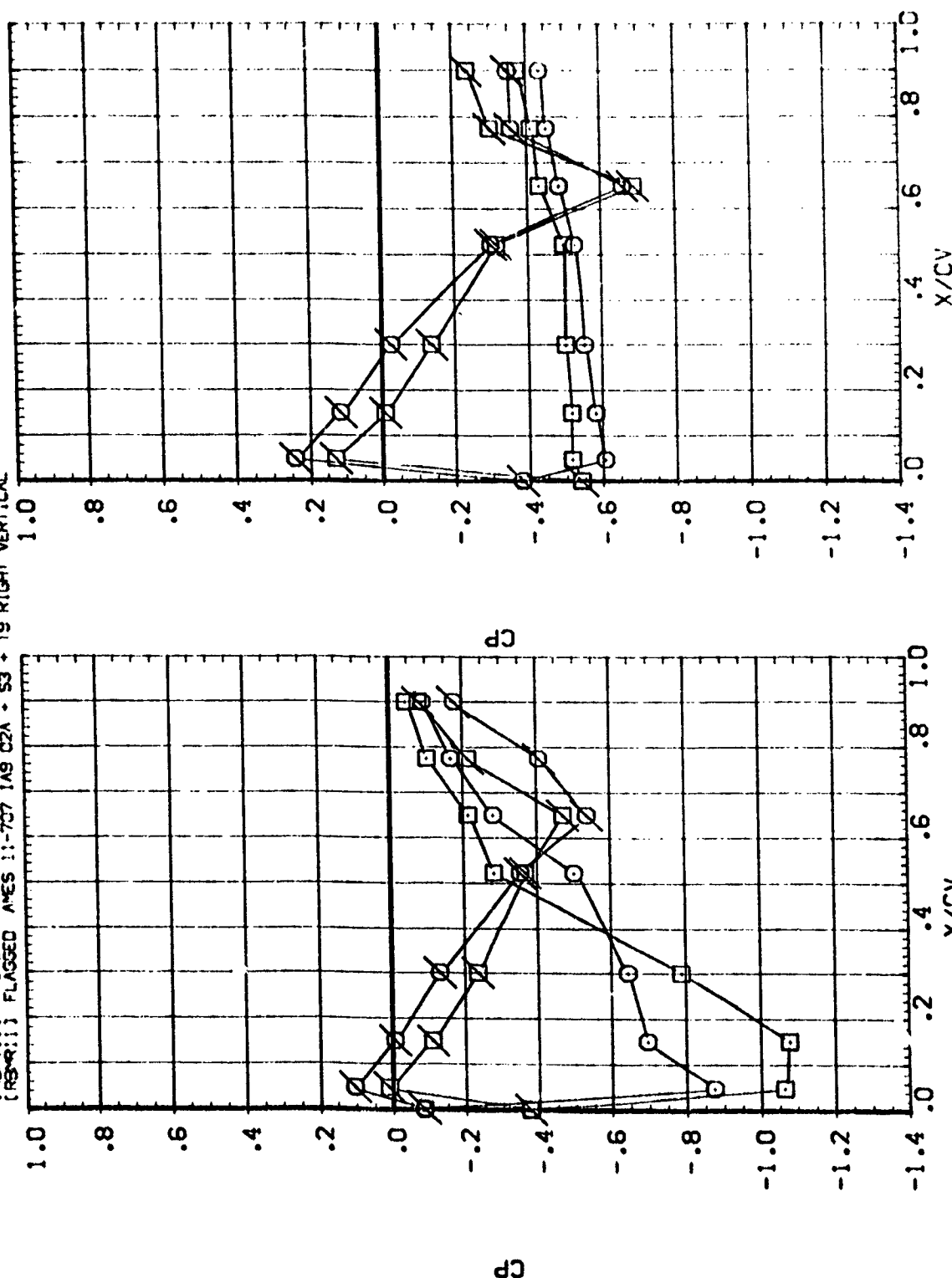


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SYNBOC Z/BV .84C .925
 BETAT 4.150 8.280
 MACH .900

PARAMETRIC VALUES
 ALPHAT 8.000
 RUDDER .000
 ELEVON .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (REMARKS) OPEN ANES 11-757 1A9 02A + S3 + T9 LEFT VERTICAL
 (REMARKS) FLAGGED ANES 11-757 1A9 02A + S3 + T9 RIGHT VERTICAL



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

PARAMETRIC VALUES

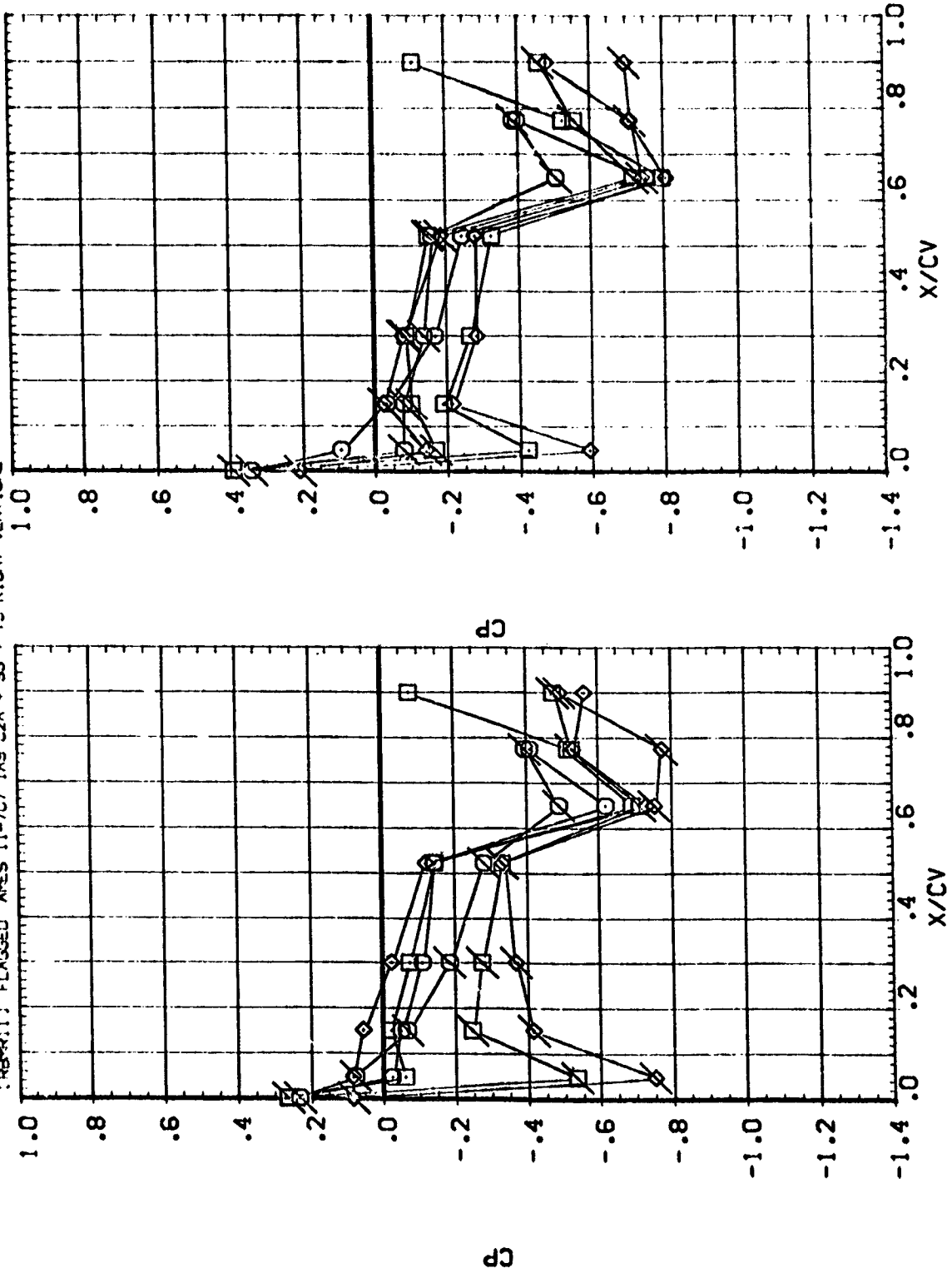
ALPHAT	8.000	DRBINC	.500
RUDDER	.000	ELEVON	.000
RJDFLR	.000		

SYMBOL Z/BV BETAT MACH

○	.159	-4.070	1.103
□	.316	2.090	
◇	.600		

DATA SET SYMBOL CONFIGURATION DESCRIPTION

REPV[11]	OPEN	AMES 11-707 IAG 02A + S3 + T9 LEFT VERTICAL
REVR[11]	FLAGGED	AMES 11-707 IAG 02A + S3 + T9 RIGHT VERTICAL

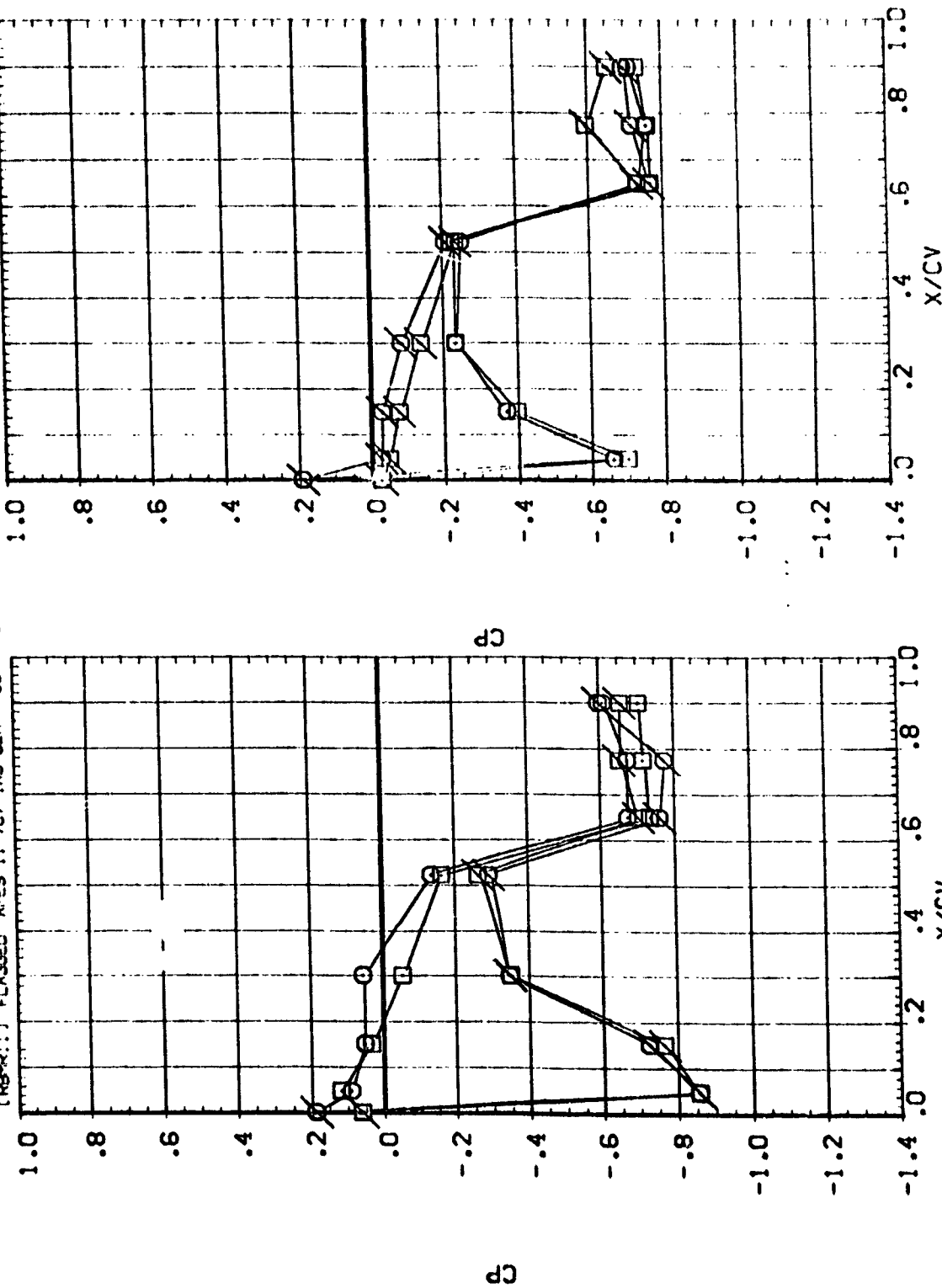




SYMBOL Z/BV BETA* MACH
 .840 -4.070 1.103
 .925 2.05C

PARAMETRIC VALUES
 ALPHAAT 8.000 ORBINC .50C
 RUDDER .00C ELEVEN .00C
 RUDLER .00C

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 [RBN] OPEN ANES 11-707 [A9 C2A + S3 + T9 LEFT VERTICAL
 [RBN] FLAGGED ANES 11-707 [A9 C2A + S3 + T9 RIGHT VERTICAL



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

2415

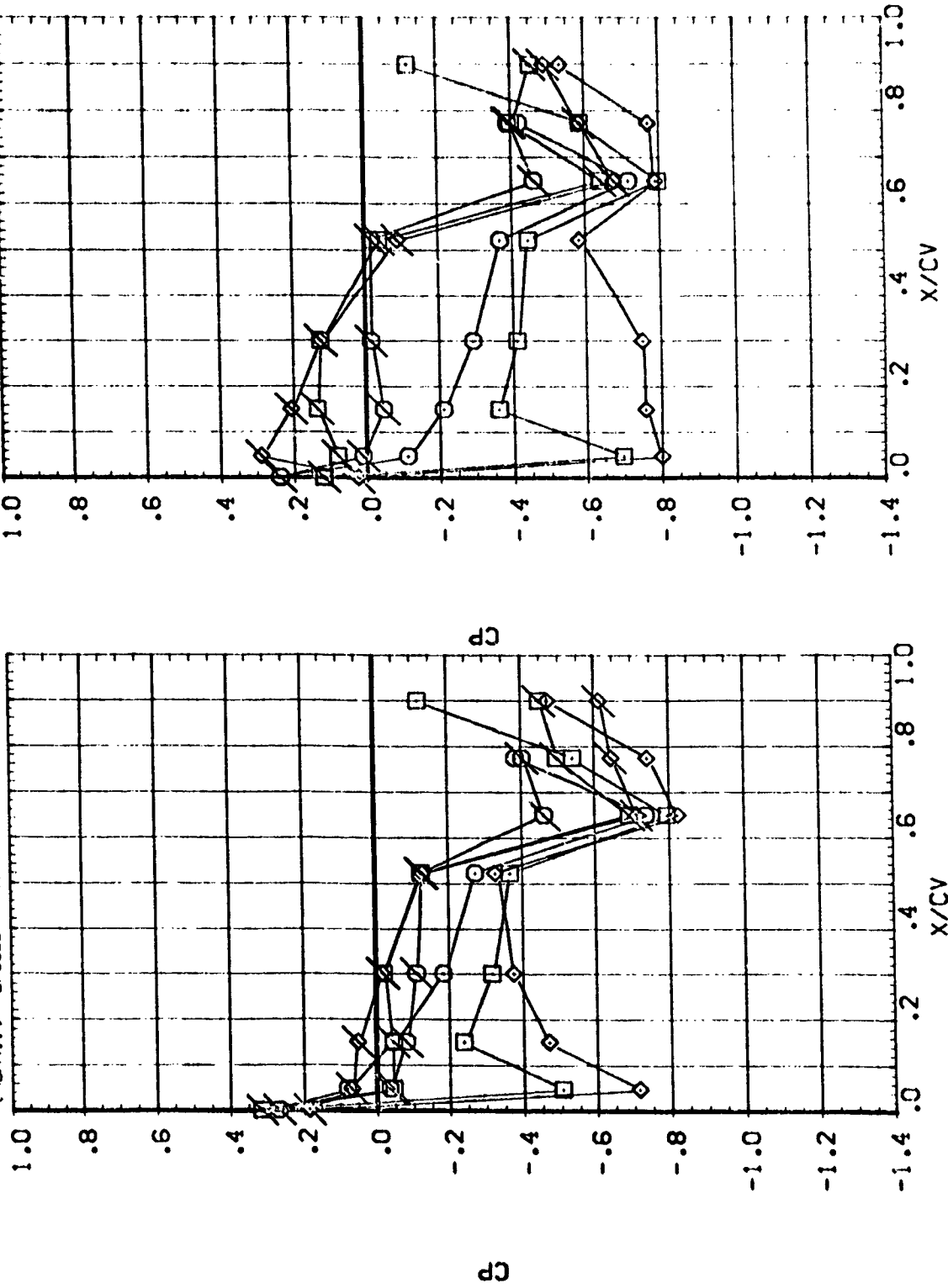


SYMBOL Z/BV
 O .158
 □ .316
 ◇ .600

BETA* MACH
 4.50 1.103
 8.300

PARAMETRIC VALUES
 8.000 0.000 .500
 .000 .000 .000
 ALPHAT RUDER RUDFLR

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 :RBMV: OPEN ASES 11-707 :AS C2A + S3 + T9 LEFT VERTICAL
 :RBMV: FLAGGED ASES 11-707 :AS C2A + S3 + T9 RIGHT VERTICAL



SYMBOL

Z/BV

BETAT

MACH

0.84C

4.150

1.103

0.925

8.300

PARAMETRIC VALUES

ALPHAT

8.000

DRBTNC

.000

RUDGER

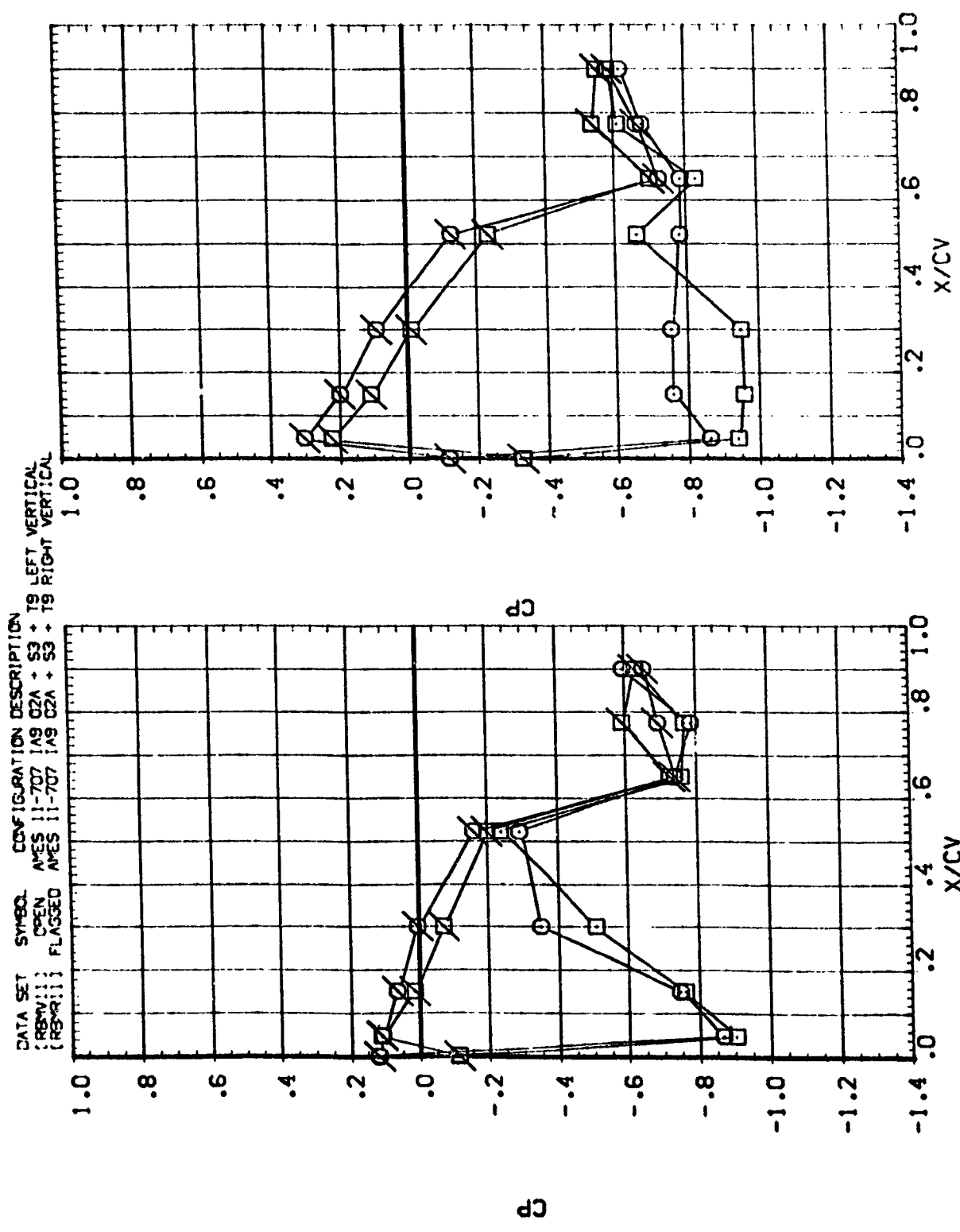
.000

ELEVON

.000

RJOF LR

.000

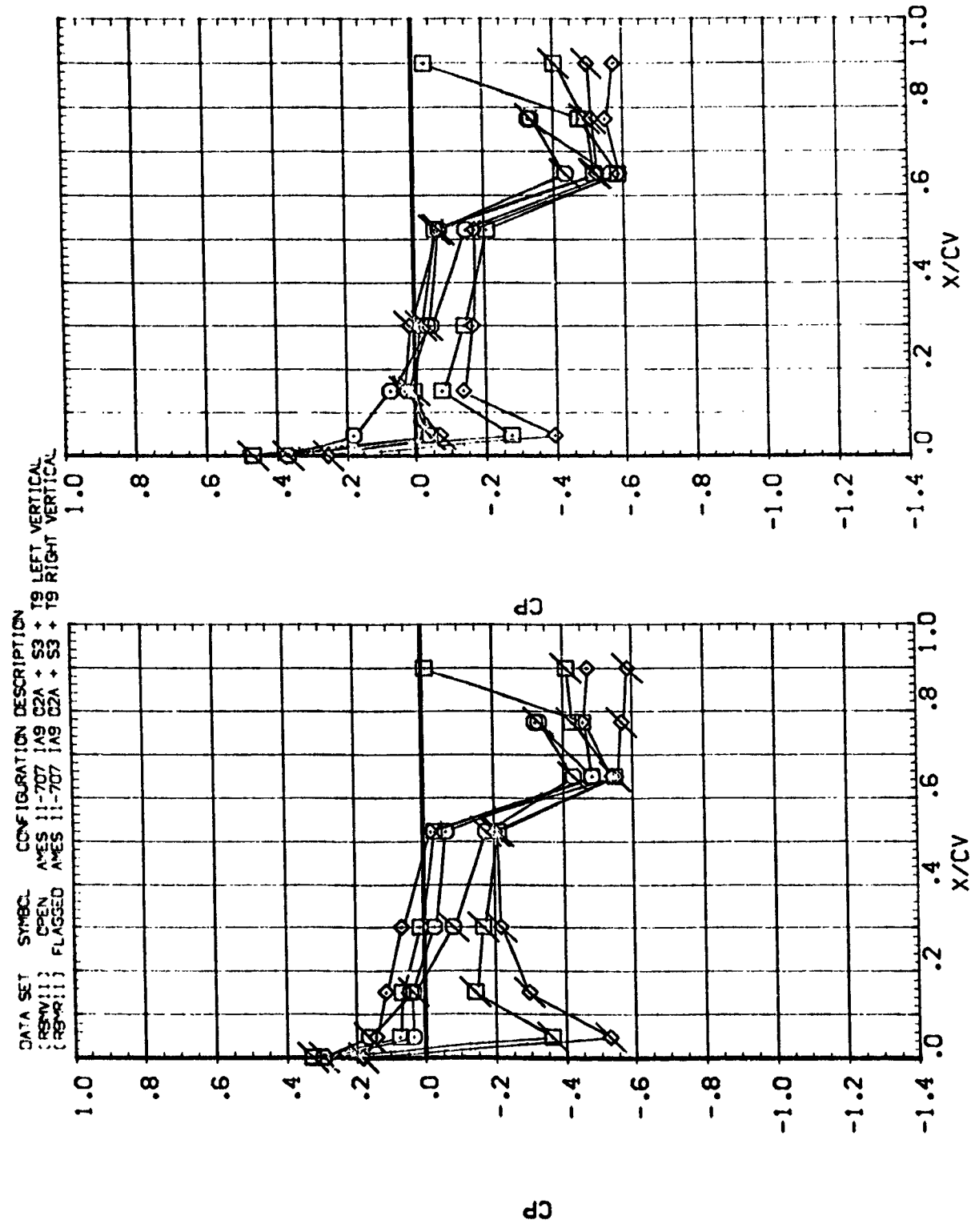


SYMBOL Z/SV
 .158
 .316
 .600

RE/TAT
 -4.040
 2.080

MACH
 1.245

PARAMETRIC VALUES
 ALPHAT 8.000 CRBINC .500
 RUOER .000 ELEVON .000
 RUOFLR .000



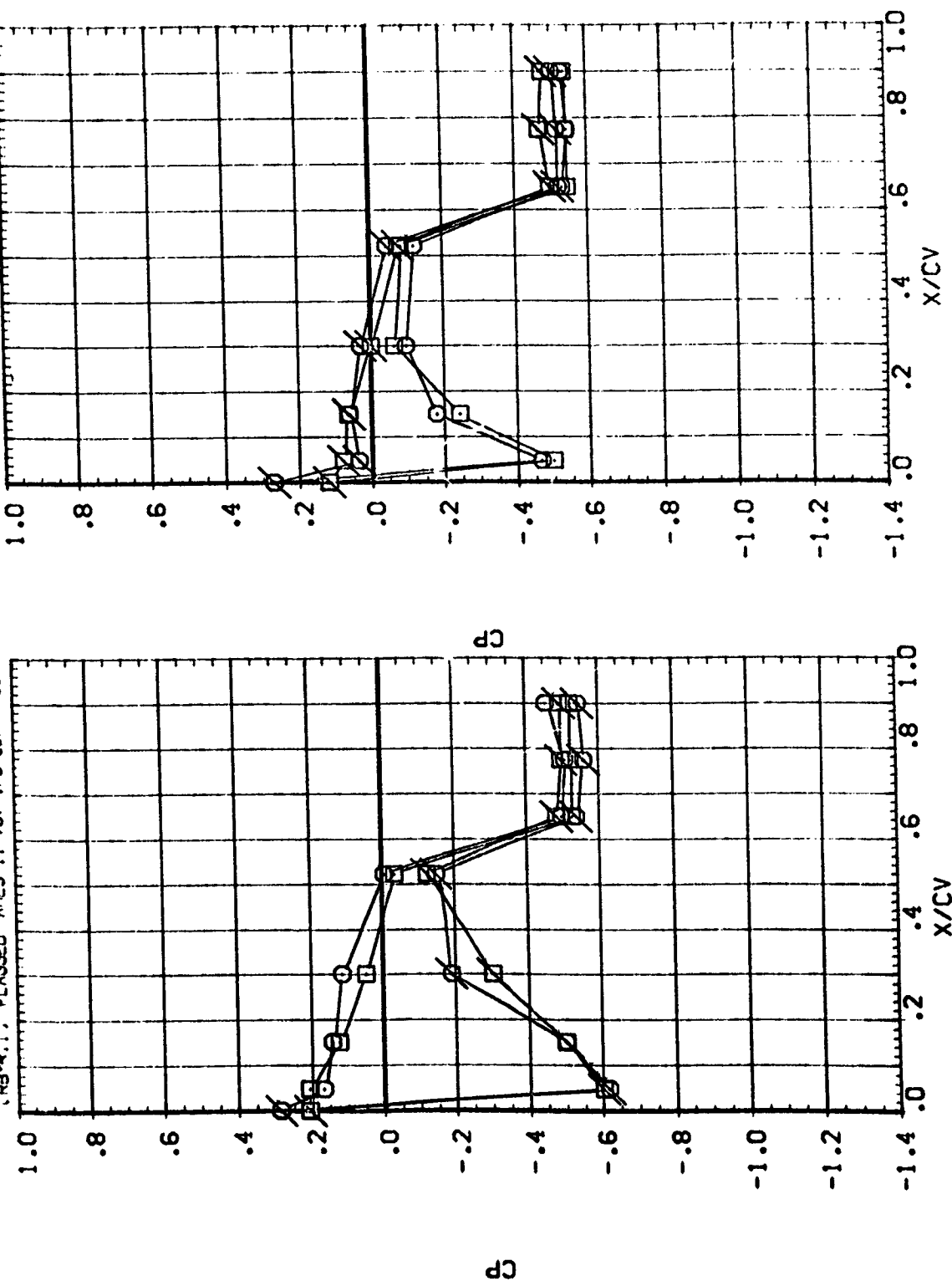
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES



SYMBOL Z/BV .84C .925
BETAT -4.040 2.080
MACH 1.245

PARAMETRIC VALUES
ALPHAT 8.000 0.000
RUDDER .000 .000
RUDFLR .000 .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(RBMV:) OPEN ANES 11-707 1A9 C2A + S3 + T9 LEFT VERTICAL
(RBMV:) FLAGGED ANES 11-707 1A9 C2A + S3 + T9 RIGHT VERTICAL



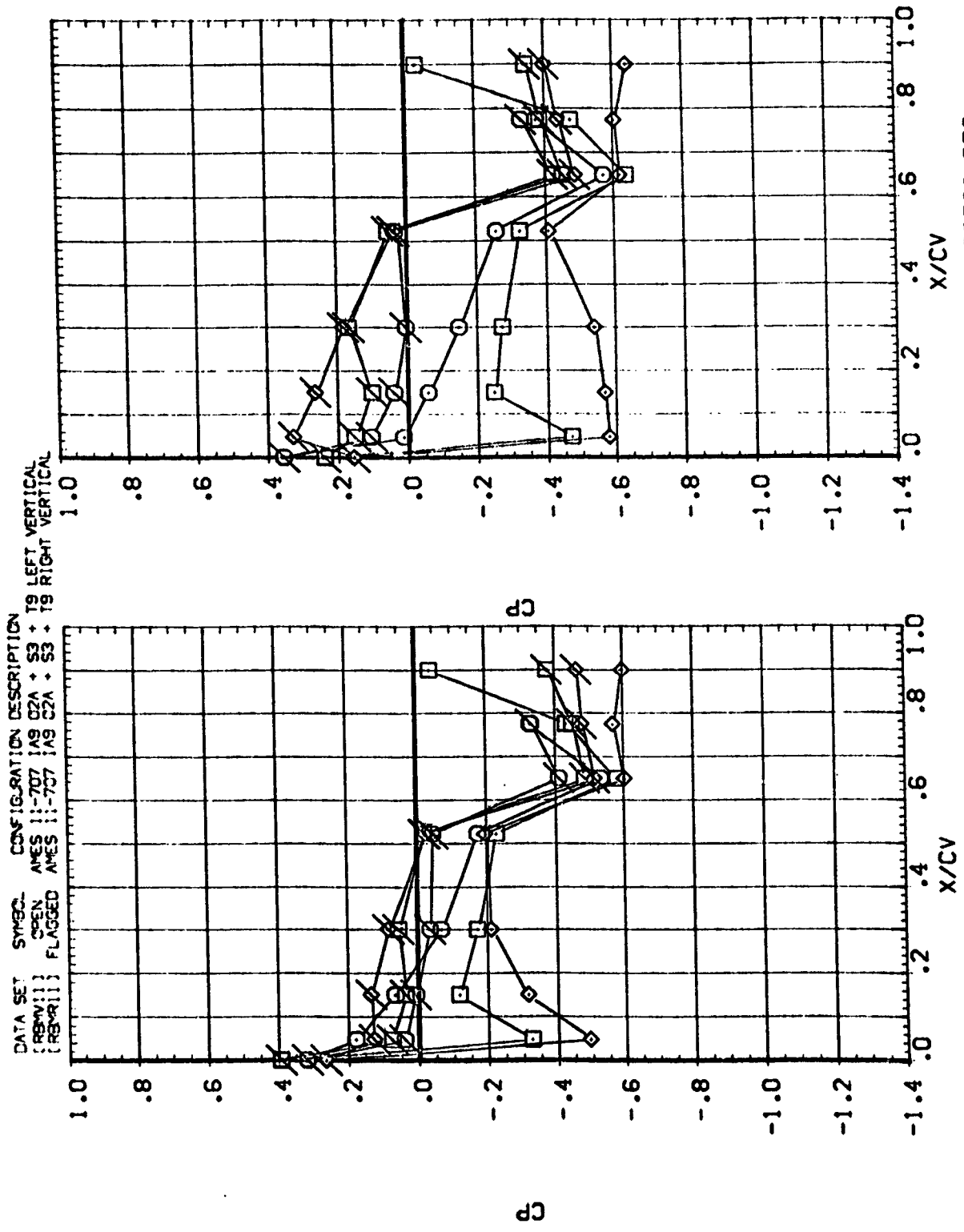
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

PARAMETRIC VALUES

ALPHAT	9.000	CRBINC	.500
RUDDER	.000	ELEVON	.000
RJCFLR	.000		

SYMBOL

Z/BV	BETAT	MACH
.158	4.130	1.245
.316	8.250	
.600		



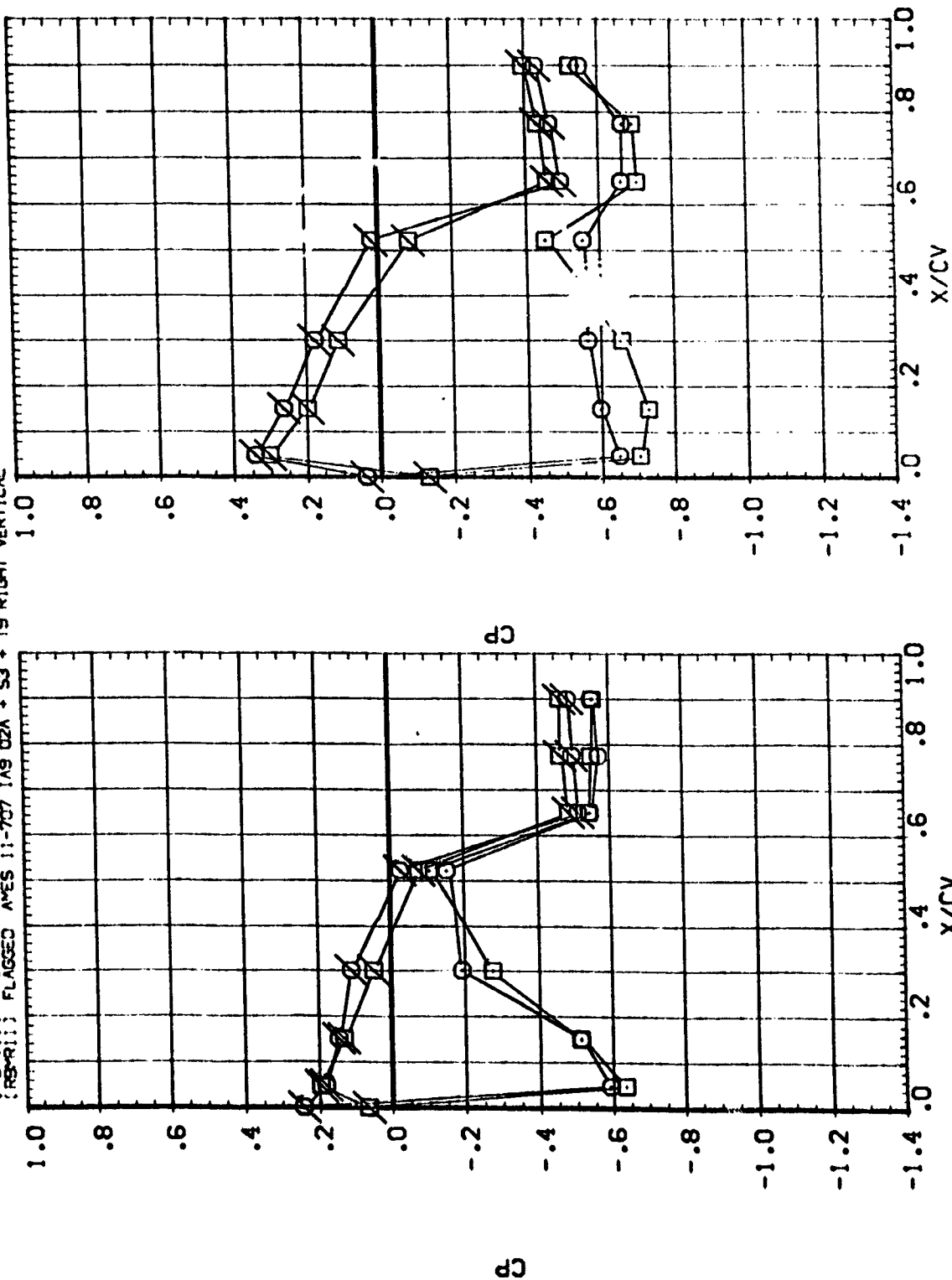
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES



SYNCH Z/BV .84C .925
BETAT 4.130 8.250
MACH 1.245

PARAMETRIC VALUES
ALPHAT 8.000 0RBINC .500
RUDER .000 ELEVON .000
RUDFLR .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
{RBV111} OPEN ASES 11-707 1A9 02A + S3 + T9 LEFT VERTICAL
{RBV111} FLAGED ASES 11-707 1A9 02A + S3 + T9 RIGHT VERTICAL



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

PARAMETRIC VALUES

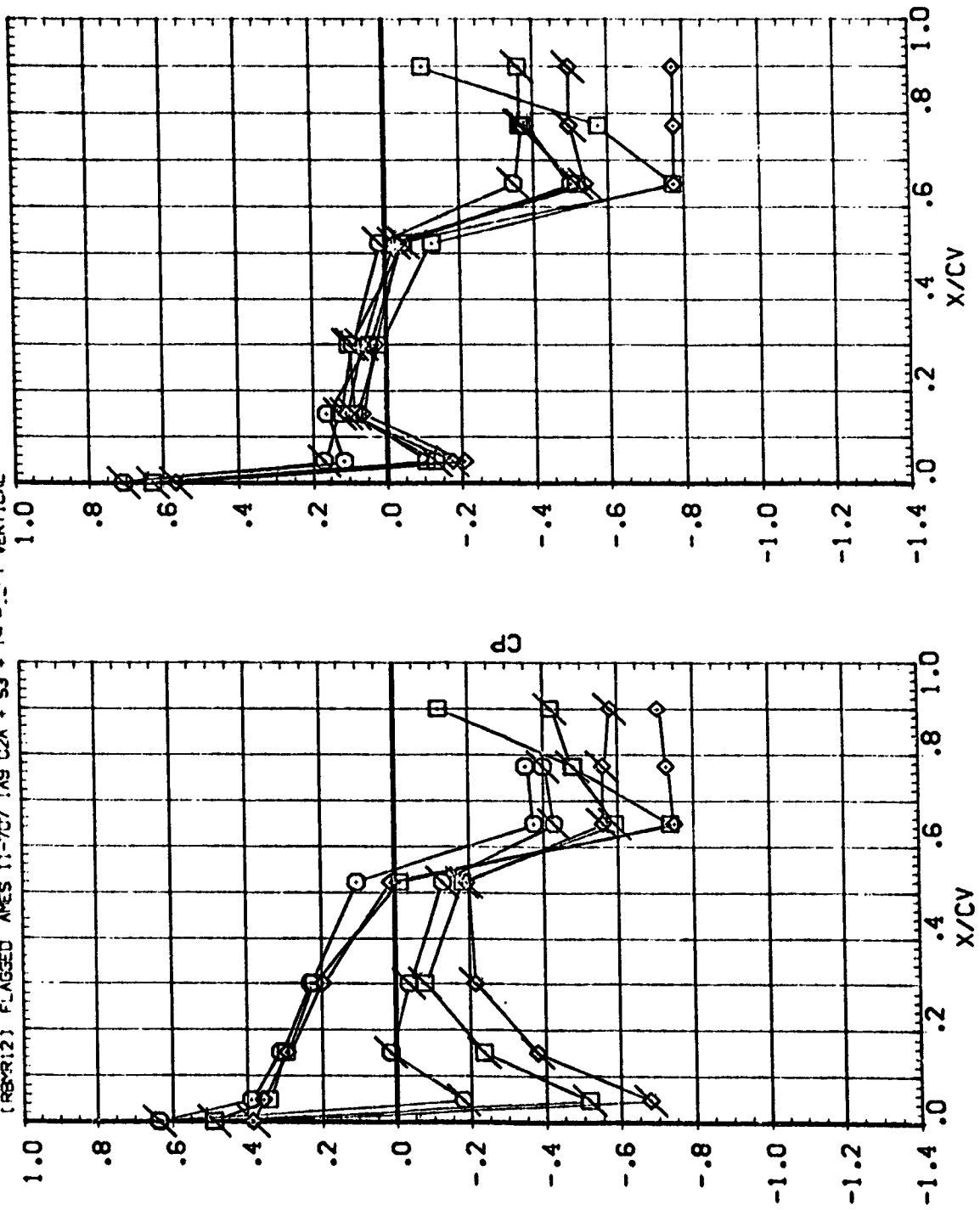
ALPHAT	-8.000	DRBTNC	.500
RUDDER	-5.000	ELEVON	.000
RUFLLR	.000		

SYMBOL Z/BV BETAT MACH

○	.158	-4.070	1.101
□	.316	.020	
◇	.600		

DATA SET SYMBOL CONFIGURATION DESCRIPTION

[REVR(2)]	OPEN	AVES 11-707 [A9 C2A + S3 + T9 LEFT VERTICAL
[REVR(2)]	FLAGGED	AVES 11-707 [A9 C2A + S3 + T9 RIGHT VERTICAL

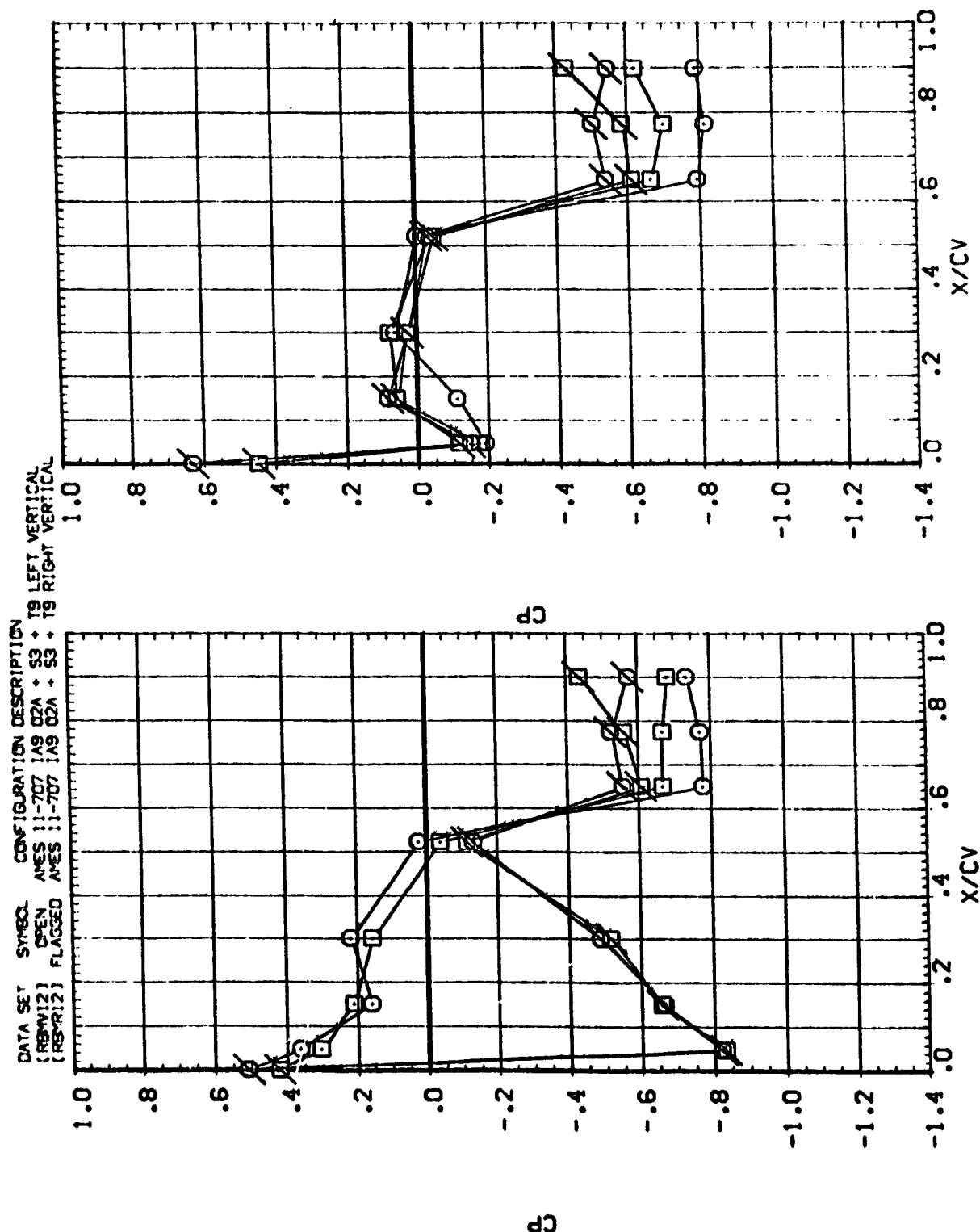


CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

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SYMBOL Z/BV BETAT MACH
 .84C -4.070 1.101
 .925 .020

PARAMETRIC VALUES
 ALPHAT -8.000 DRBINC .000
 RUDDER -5.000 ELEVON .000
 RUOFLR .000



PARAMETRIC VALUES

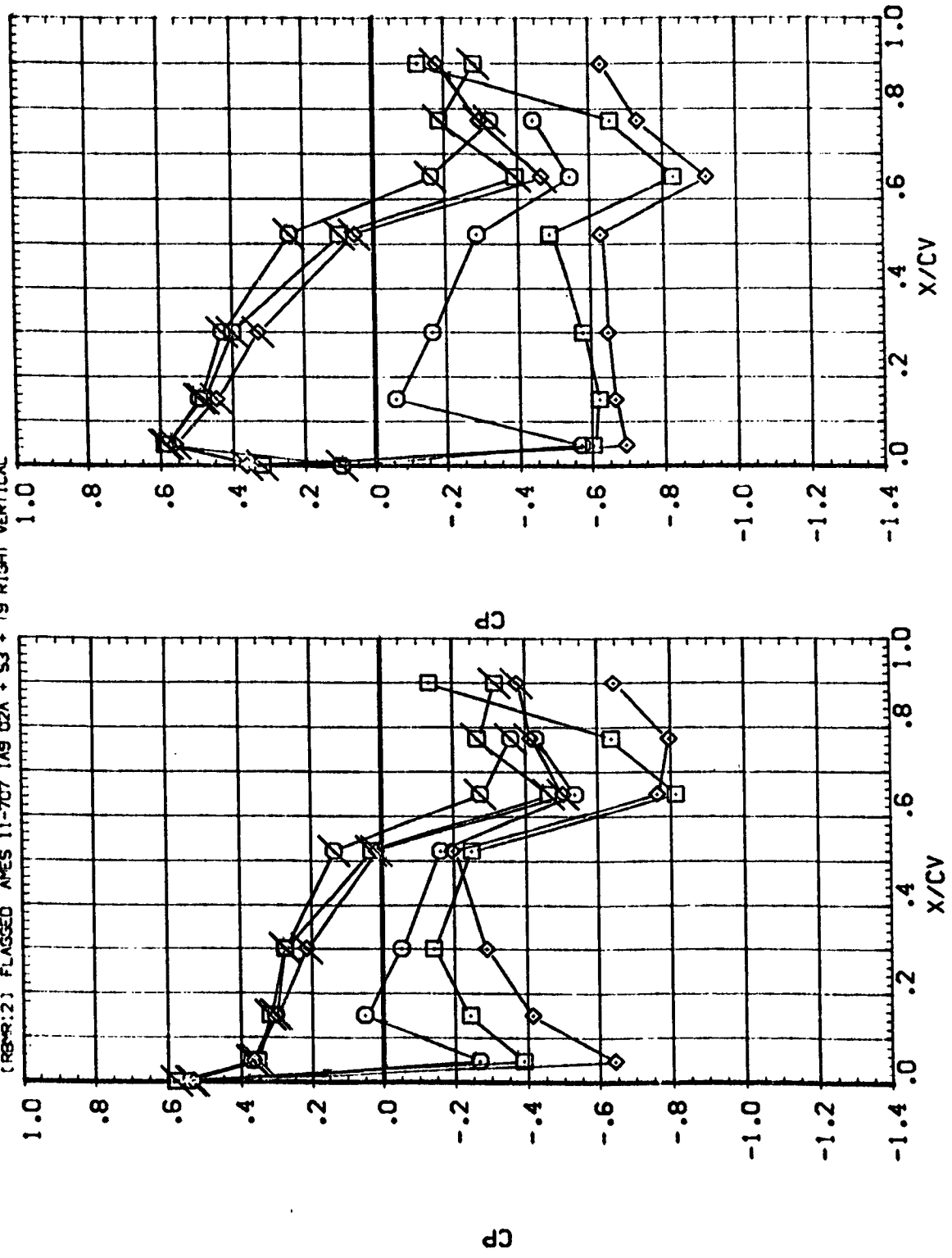
ALPHA	-8.000	DRB/INC	.500
RUDDER	-5.000	ELEVON	.000
RUDDER	.000		

SYMBOL Z/BV BETAT MACH

○	.158	4.160	1.101
□	.316	8.300	
◇	.600		

DATA SET SYMBOL CONFIGURATION DESCRIPTION

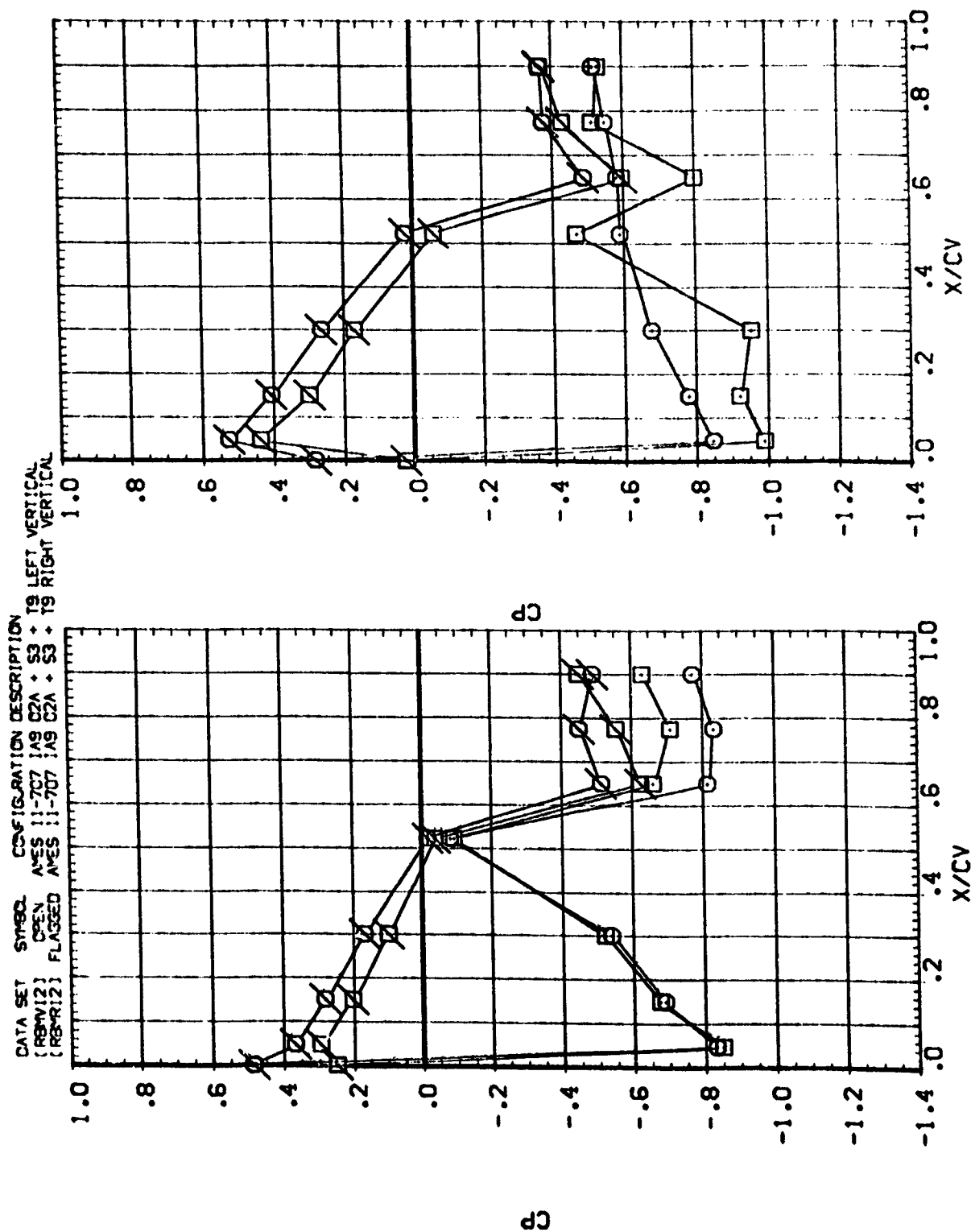
[RBW:2]	OPEN	AMES 11-707 [A9 02A + S3 + T9 LEFT VERTICAL
[RBW:2]	FLAGGED	AMES 11-707 [A9 02A + S3 + T9 RIGHT VERTICAL



==

SYMBOL Z/BV BETAT MACH
 .840 4.160 1.101
 .925 8.300

PARAMETRIC VALUES
 ALPHAT -8.000 CRBINC .500
 RUDDER -5.000 ELEVEN .000
 RJOFLR .000



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES



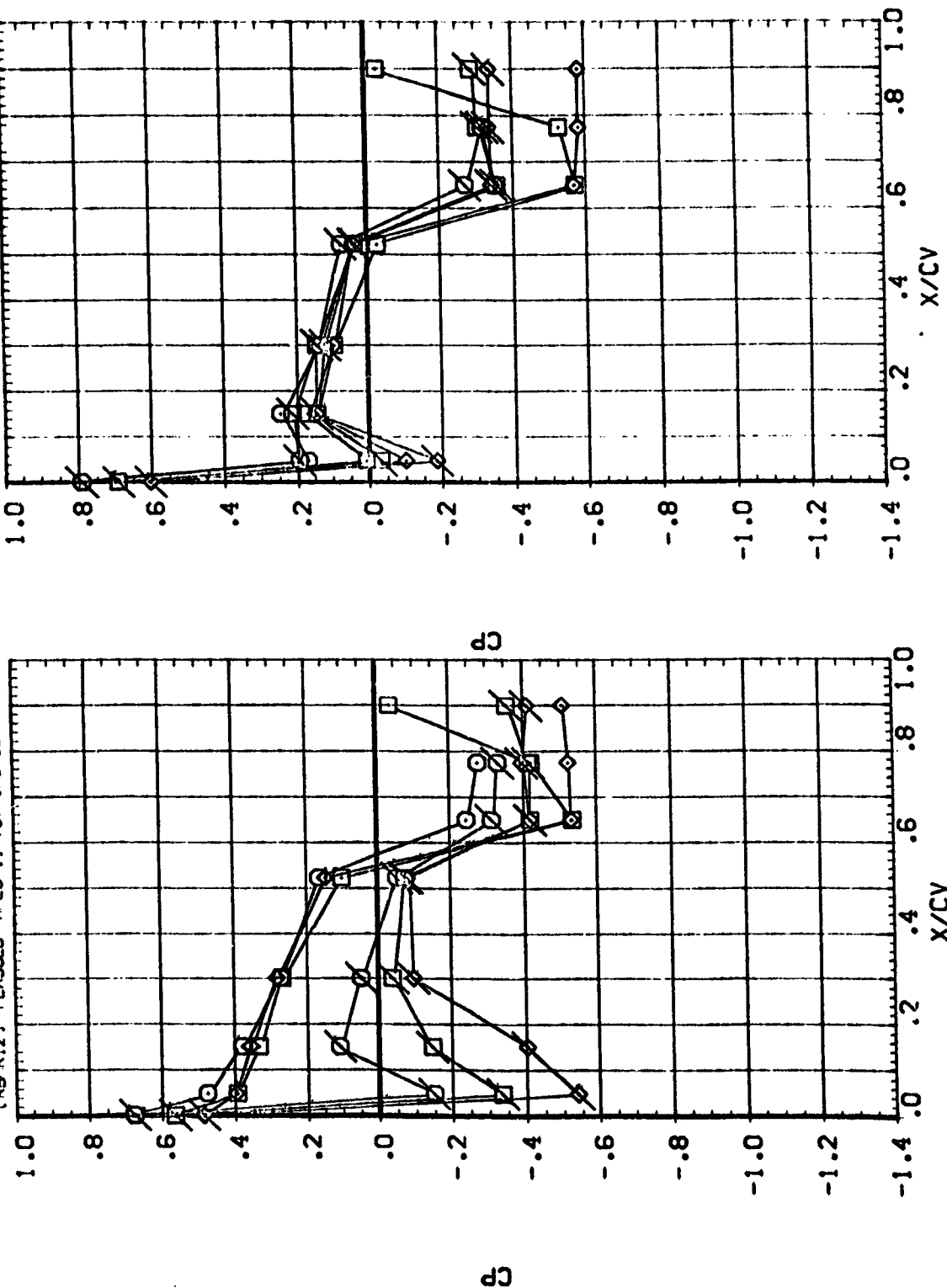
SYMBOL Z/BV
 O .158
 □ .316
 ◇ .600

BETAT
 -4.050
 .020

MACH
 1.250

PARAMETRIC VALUES
 ALPHAT
 RUDDER
 RUDFLR
 -8.000
 -5.000
 .000
 DBINC
 ELEVON
 .500
 .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RBM12) OPEN ASES 11-707 [AS 02A + S3 + T9 LEFT VERTICAL
 (RBM12) FLAGGED ASES 11-707 [AS 02A + S3 + T9 RIGHT VERTICAL

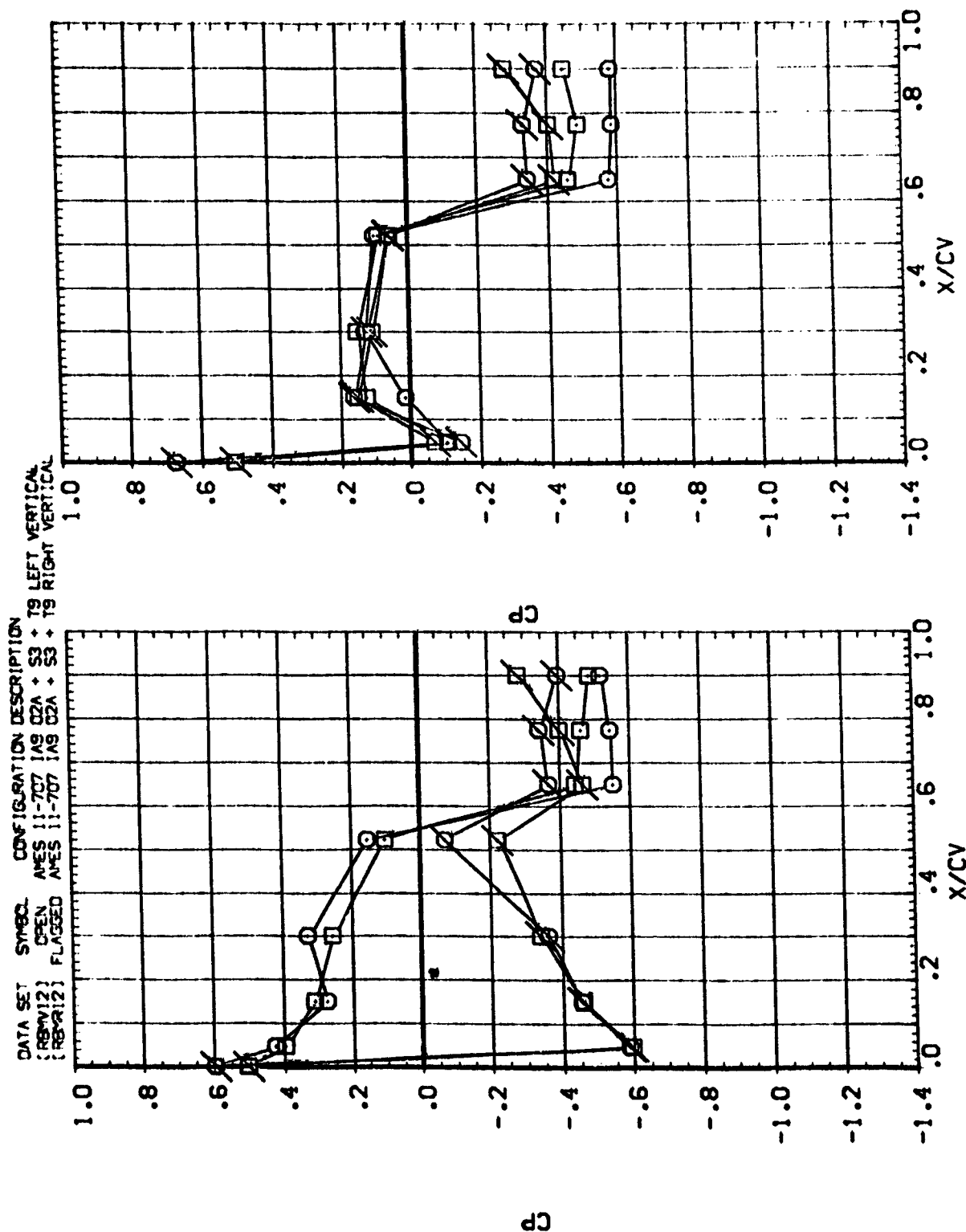


CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES



SYMBOL Z/BV BETAT MACH
 □ .840 .020
 □ -4.050 1.250

PARAMETRIC VALUES
 ALPHAT -8.000 ORBINC .500
 RUDDER -5.000 ELEVON .000
 RUOFLR .000



PARAMETRIC VALUES

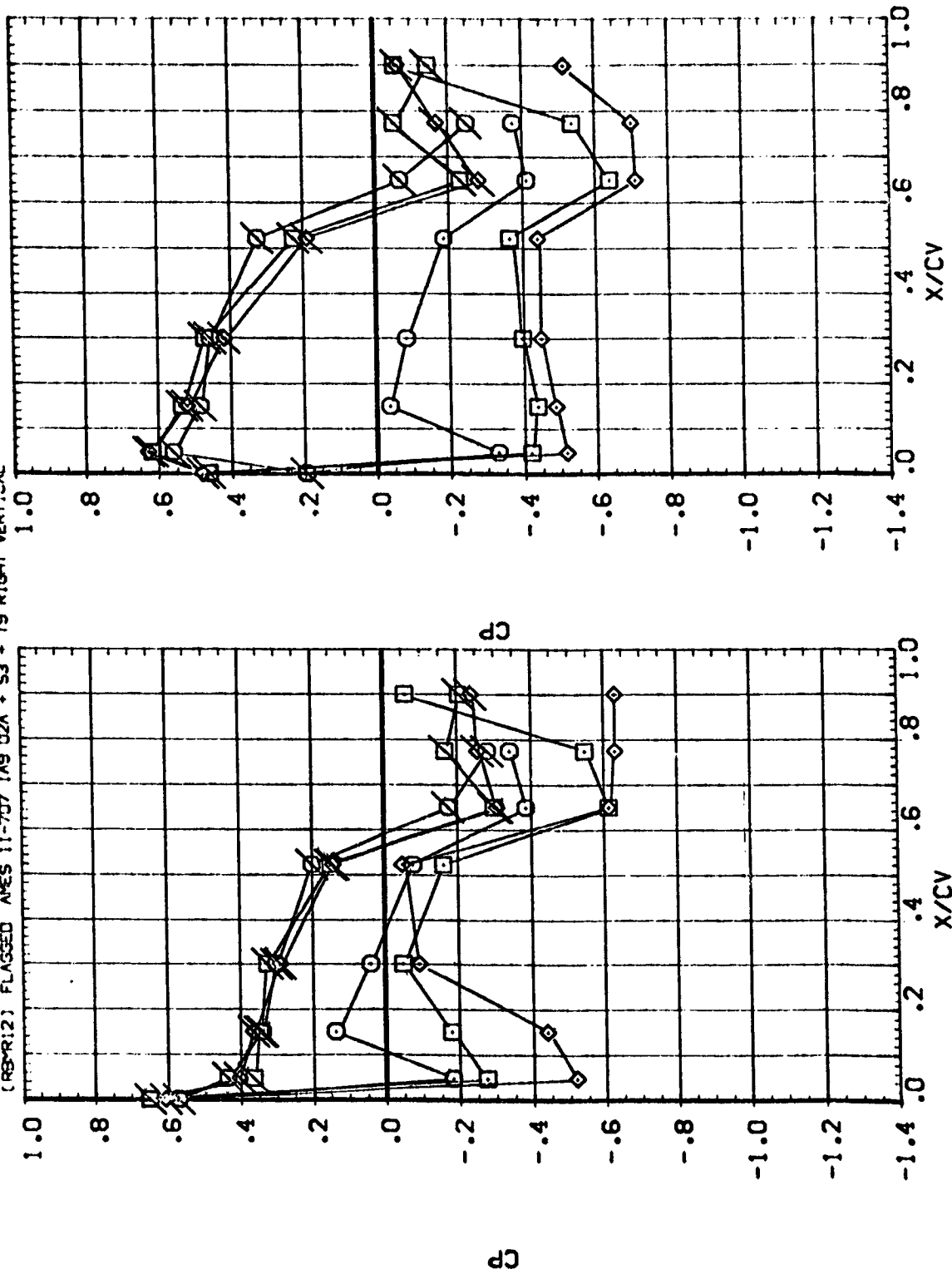
ALPHAT	-8.000	DRB:NC	.500
RUDER	-5.000	ELEVON	.000
RUDLR	.000		

SYMBOL

Z/BV	BETAT	MACH
.158	4.130	1.250
.316	8.250	
.600		

DATA SET SYMBOL CONFIGURATION DESCRIPTION

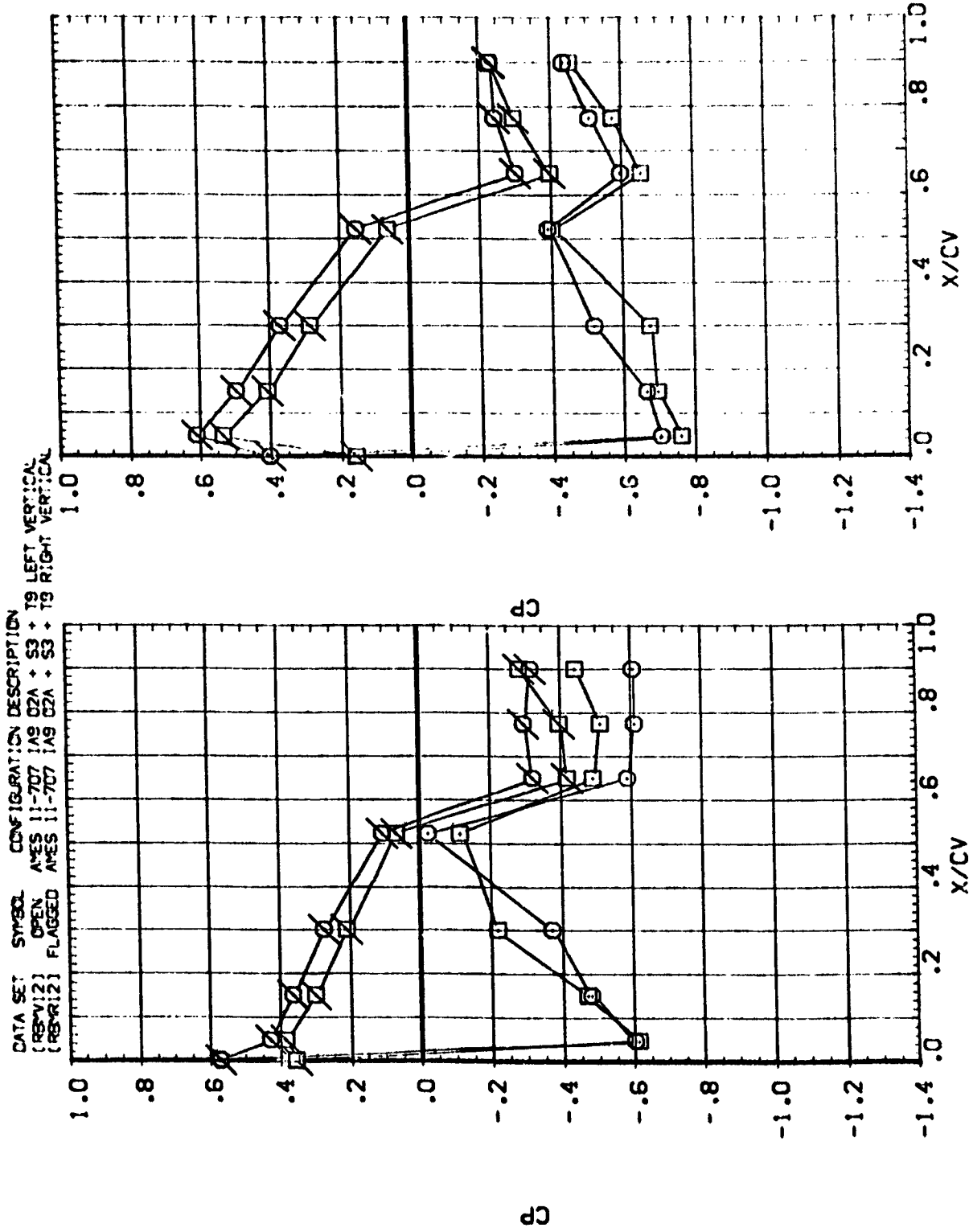
(RBMV12)	OPEN	AMES 11-707 IAS 02A + S3 + T9 LEFT VERTICAL
(RBMV12)	FLASSED	AMES 11-707 IAS 02A + S3 + T9 RIGHT VERTICAL



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SYMBOL Z/BV BETAT MACH
 .840 4.130 1.250
 .925 8.250

PARAMETRIC VALUES
 ALPHAT -8.000 ORBINC .500
 RLODR -5.000 ELEVON .000
 RLOFLR .000



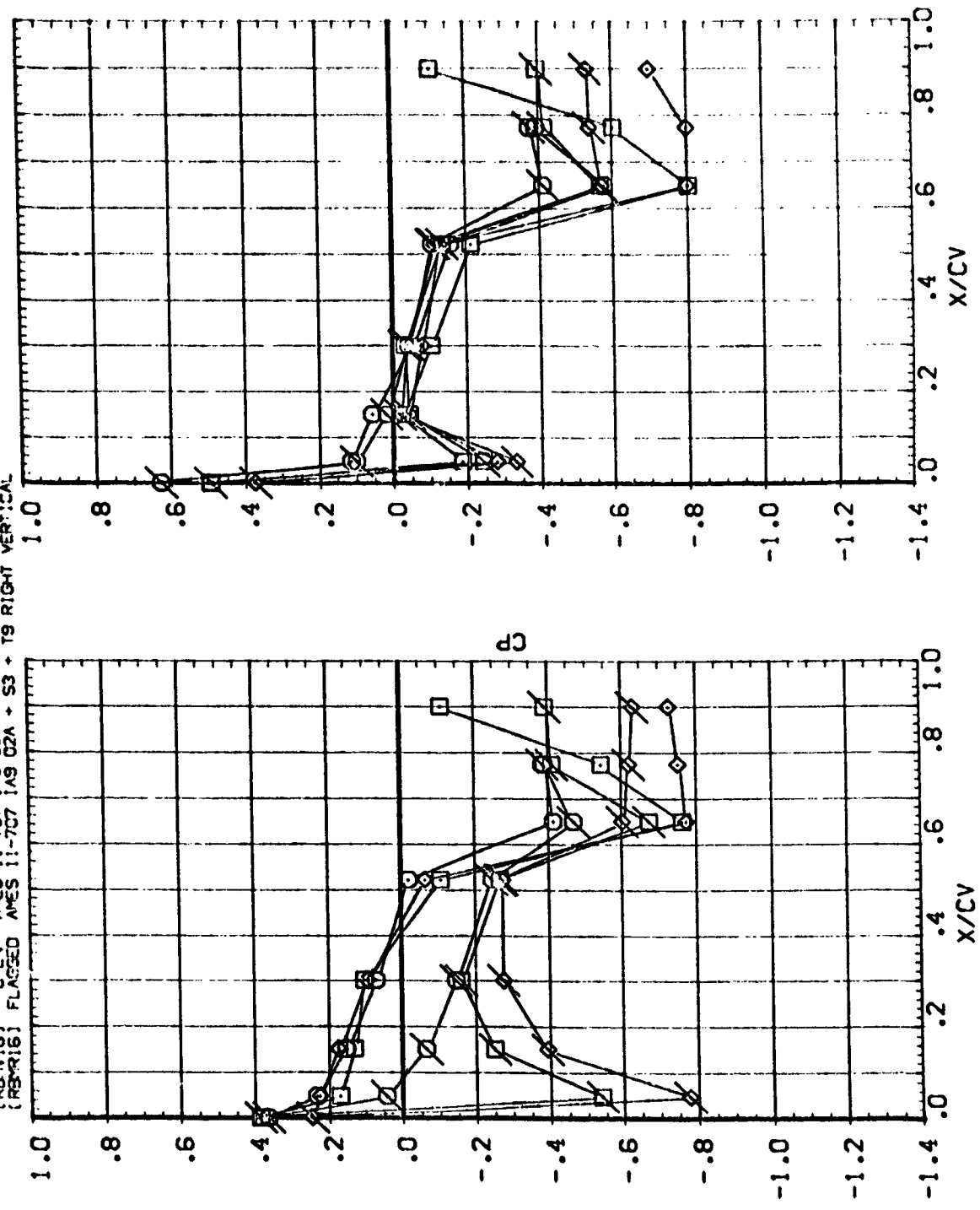
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

4-4

PARAMETRIC VALUES
 ALPHAT .000 ORBINC .500
 RUDDER -5.000 ELEVON .000
 RUOFLR .000

SYNCC Z/BV .158 MACH 1.121
 BETAT -4.090
 .316 .020
 .600

DATA SET SYNCC CONFIGURATION DESCRIPTION
 (RBRV16) OPEN AVES 11-707 [A9 02A + S3 + T9 LEFT VERTICAL
 (RBRV16) FLAGGED AVES 11-707 [A9 02A + S3 + T9 RIGHT VERTICAL





SYMBOL

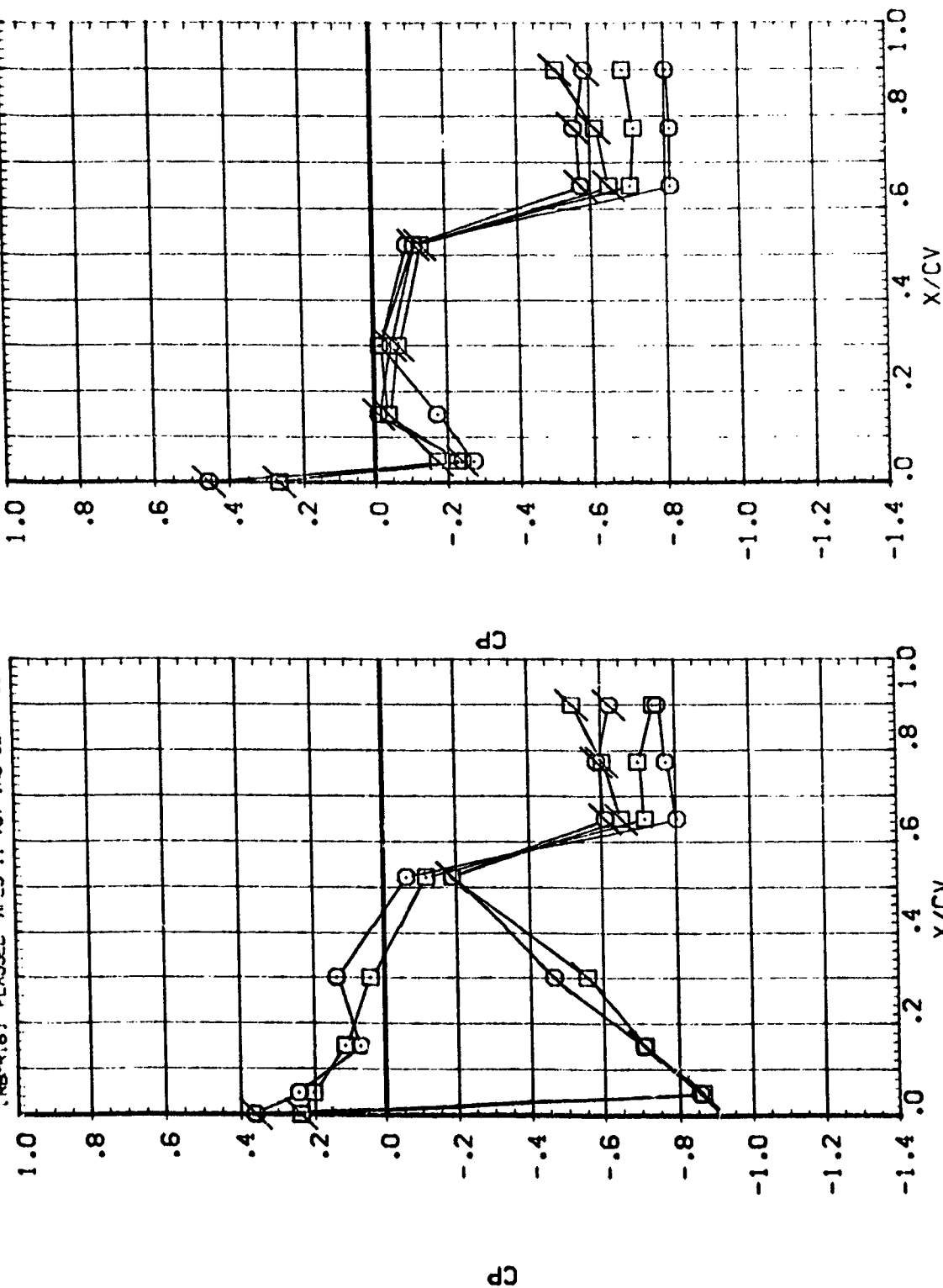
Z/BV
.84C
.925

BETAT
-4.08C
.020

PACH
1.101

PARAMETRIC VALUES
ALPHAT
RLODER
RLOFLR
.000
-5.000
.000
ORJINC
ELEVON
.500
.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(RBMV16) OPEN ANES 11-707 IAS 02A + S3 + T9 LEFT VERTICAL
(RBMV16) FLAGGED ANES 11-707 IAS 02A + S3 + T9 RIGHT VERTICAL



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

PARAMETRIC VALUES

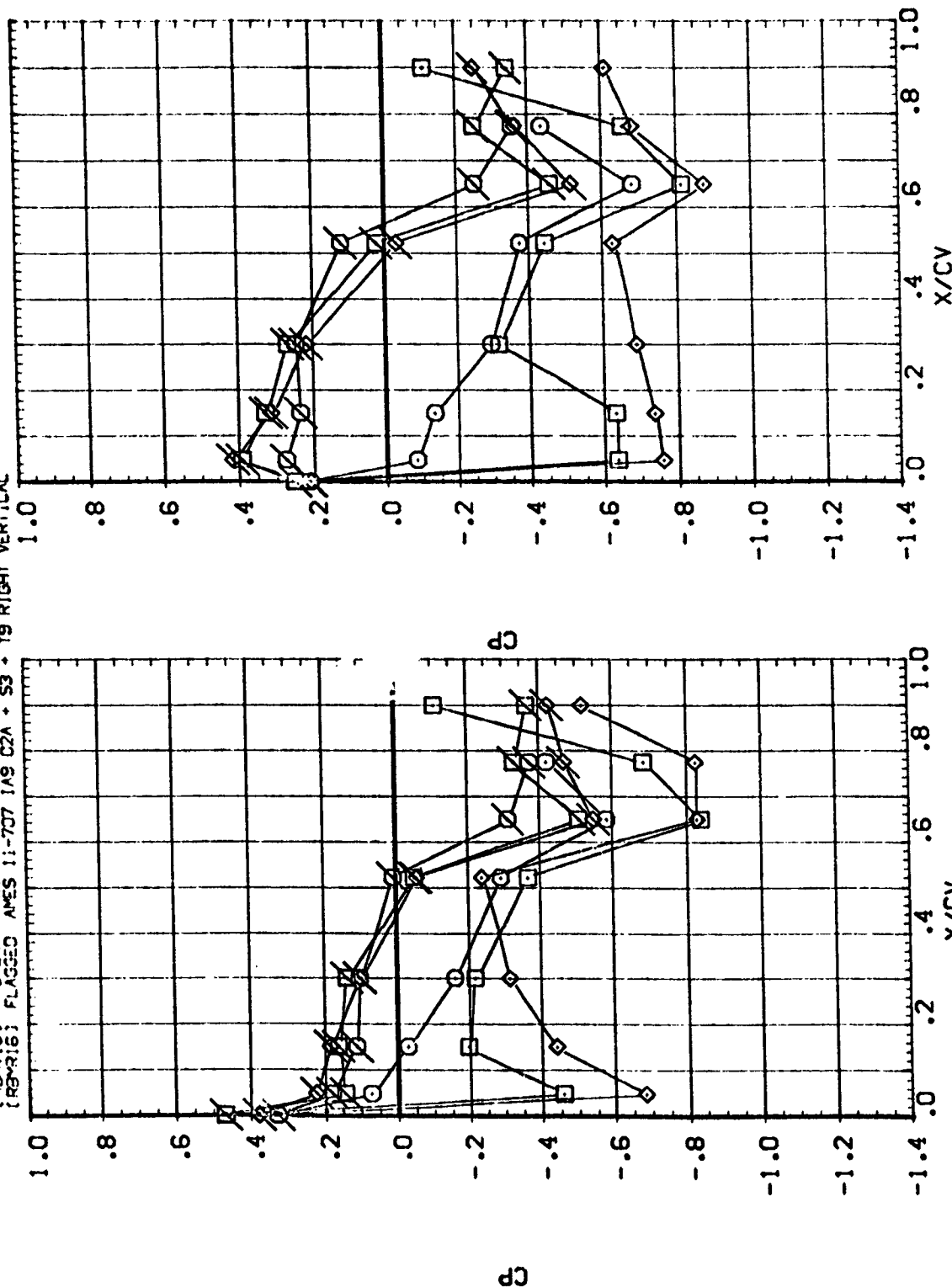
ALPHA	.000	ORBIT	.500
RUDDER	-5.000	ELEVON	.000
RUEFLR	.000		

SYMBOL Z/BV

BEAT	MACH
4.130	1.101
8.250	

DATA SET SYMBOL CONFIGURATION DESCRIPTION

AMES 11-707	1A9	02A	+ S3	+ T9	LEFT VERTICAL
AMES 11-707	1A9	02A	+ S3	+ T9	RIGHT VERTICAL

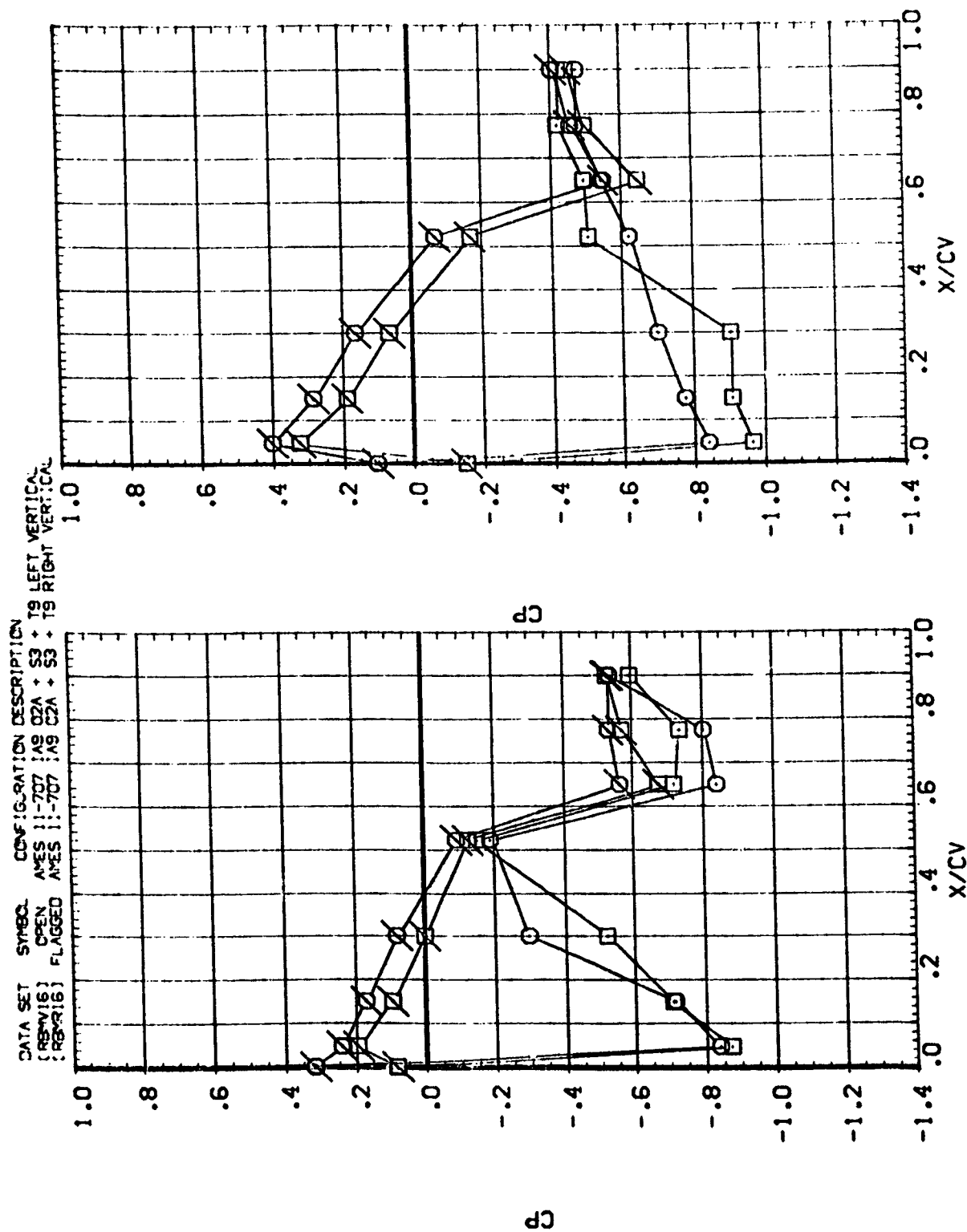


CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES



SYNOPSIS Z/BV .84C BETAT 4.130 MACH 1.101
.925 8.250

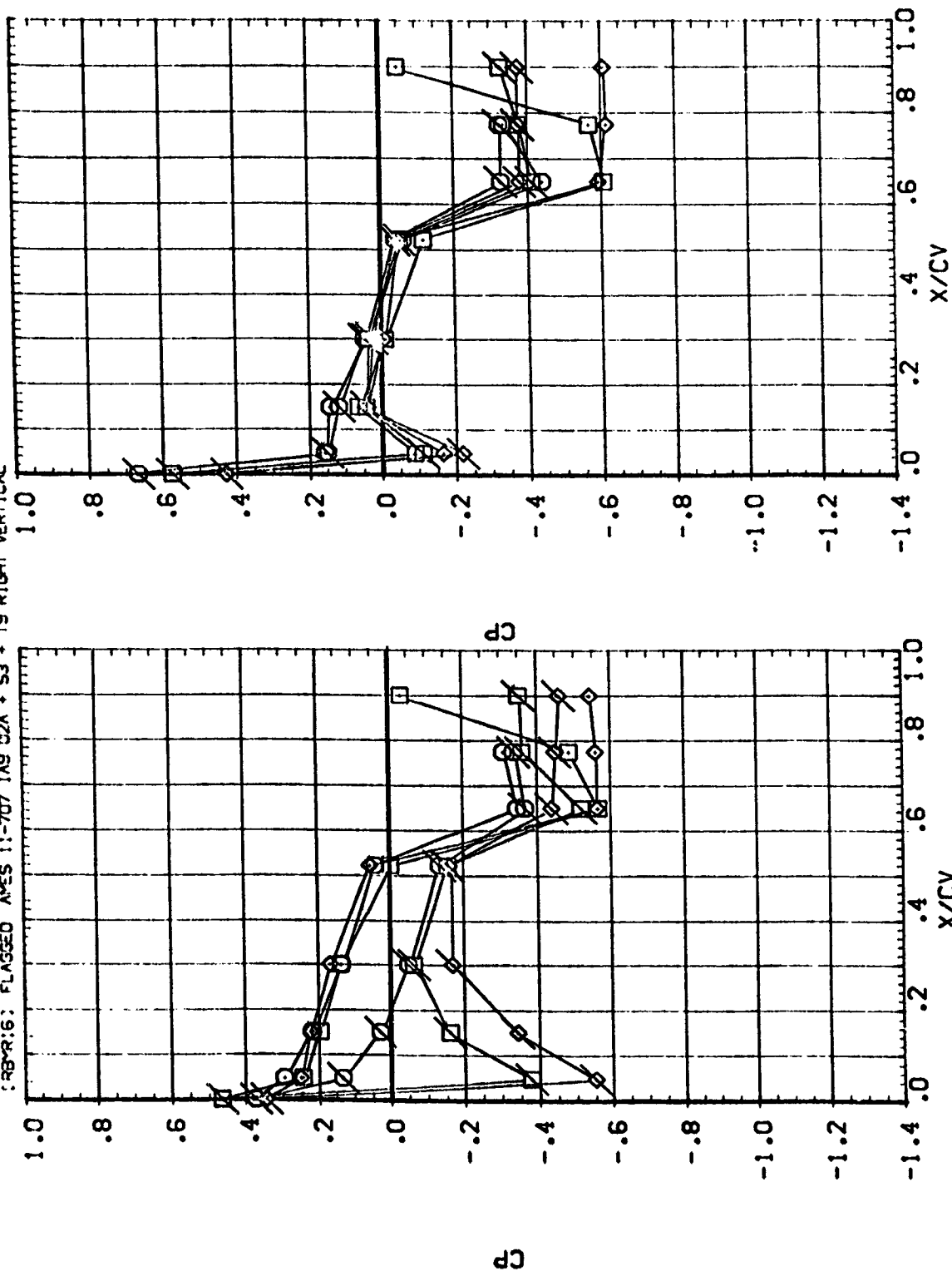
PARAMETRIC VALUES
ALPHAT .000 ORBITC .500
RUDDER -5.000 ELEVON .000
RUDFLR .000



PARAMETRIC VALUES
 ALPHA1 .000 ORBINC .500
 RUDDER -5.000 ELEVON .000
 RUDFLR .000

SYMBOL Z/BV BETAT WACH
 .158 -4.070 .247
 .316 .020
 .500

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RPM)16 OPEN AMES 11-707 1A9 C2A + S3 + T9 LEFT VERTICAL
 (RPM)16 FLAGGED AMES 11-707 1A9 C2A + S3 + T9 RIGHT VERTICAL



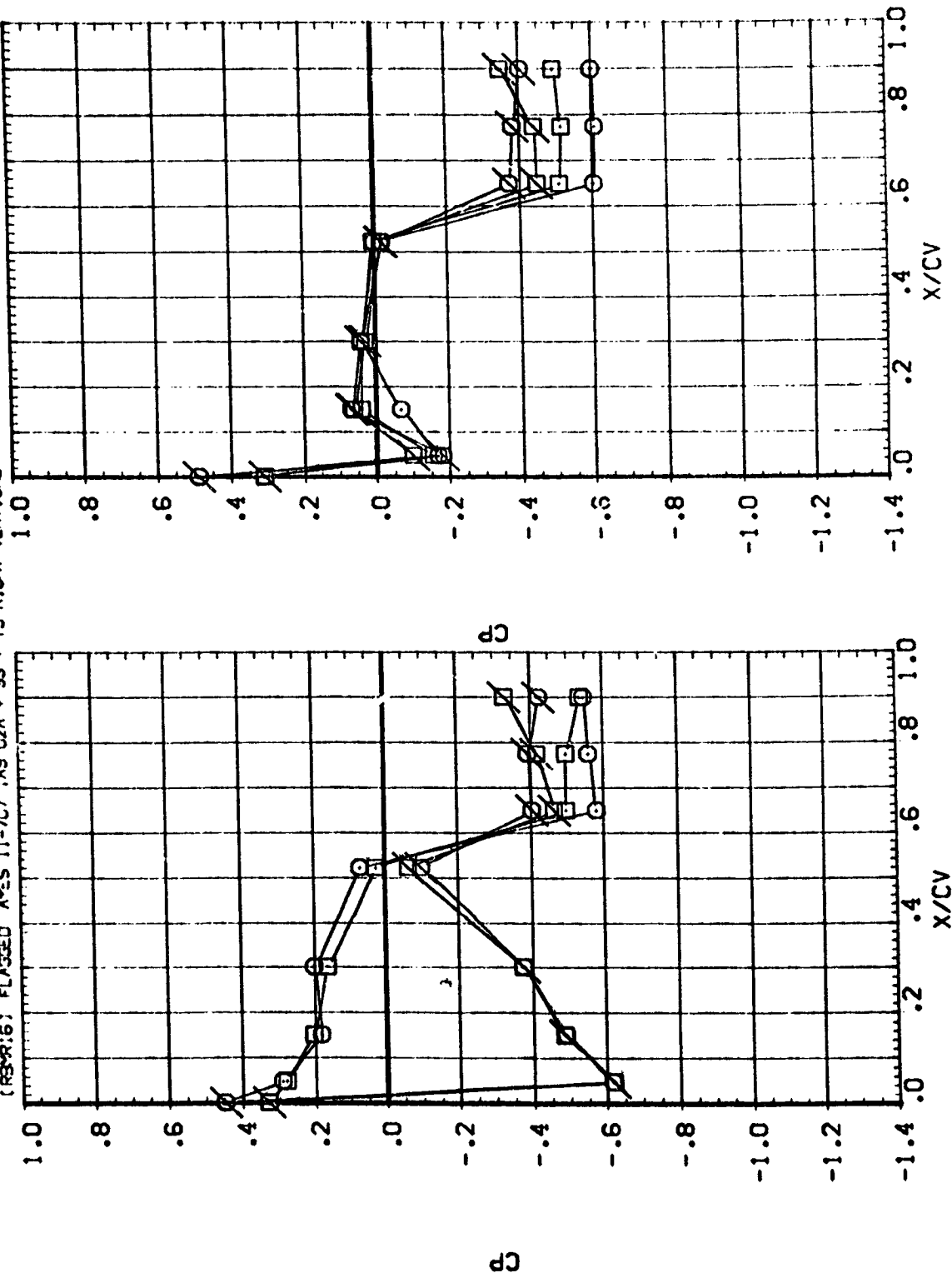
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

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SYMBOL Z/BV .840 .925
 BETAT -4.070 .02C
 MACH 1.247

PARAMETRIC VALUES
 ALPHAT .000
 RUDDER -5.000
 RUDFLR .000
 ORBINC .500
 ELEVON .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 [RPMV16] C2EN ANES 11-707 1A9 C2A + S3 + T9 LEFT VERTICAL
 [RPMV16] FLASSED ANES 11-707 1A9 C2A + S3 + T9 RIGHT VERTICAL



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL

Z/BV

BETAT

MACH

4.110

8.200

1.247

PARAMETRIC VALUES

ALPHAT

RUOOR

RUOFLR

.500

.000

.000

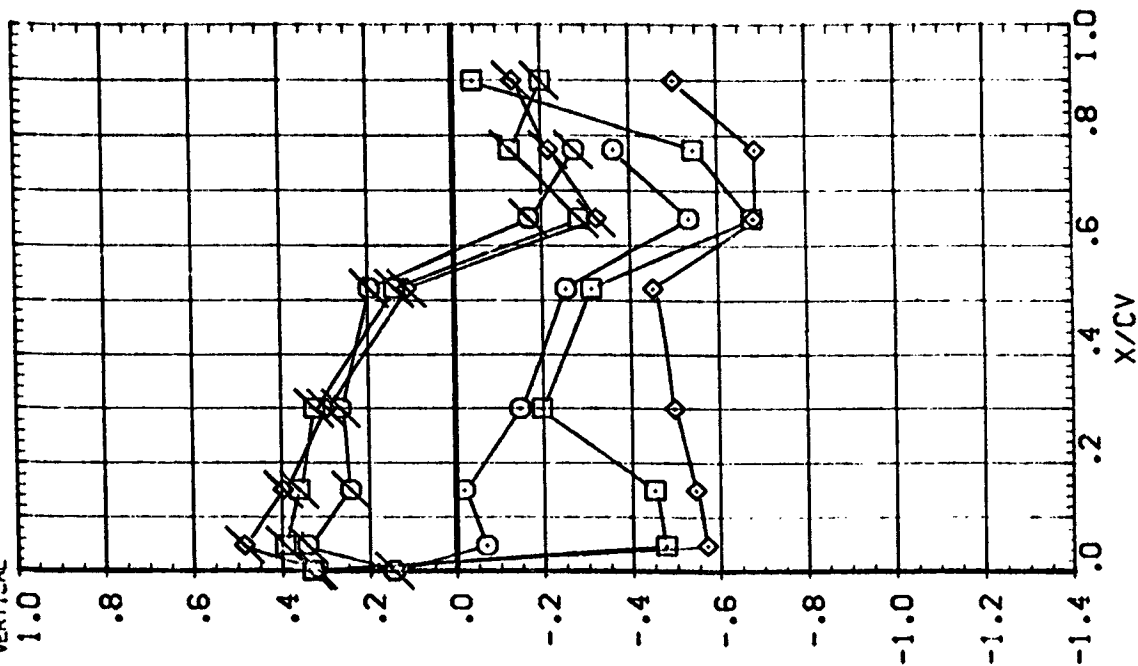
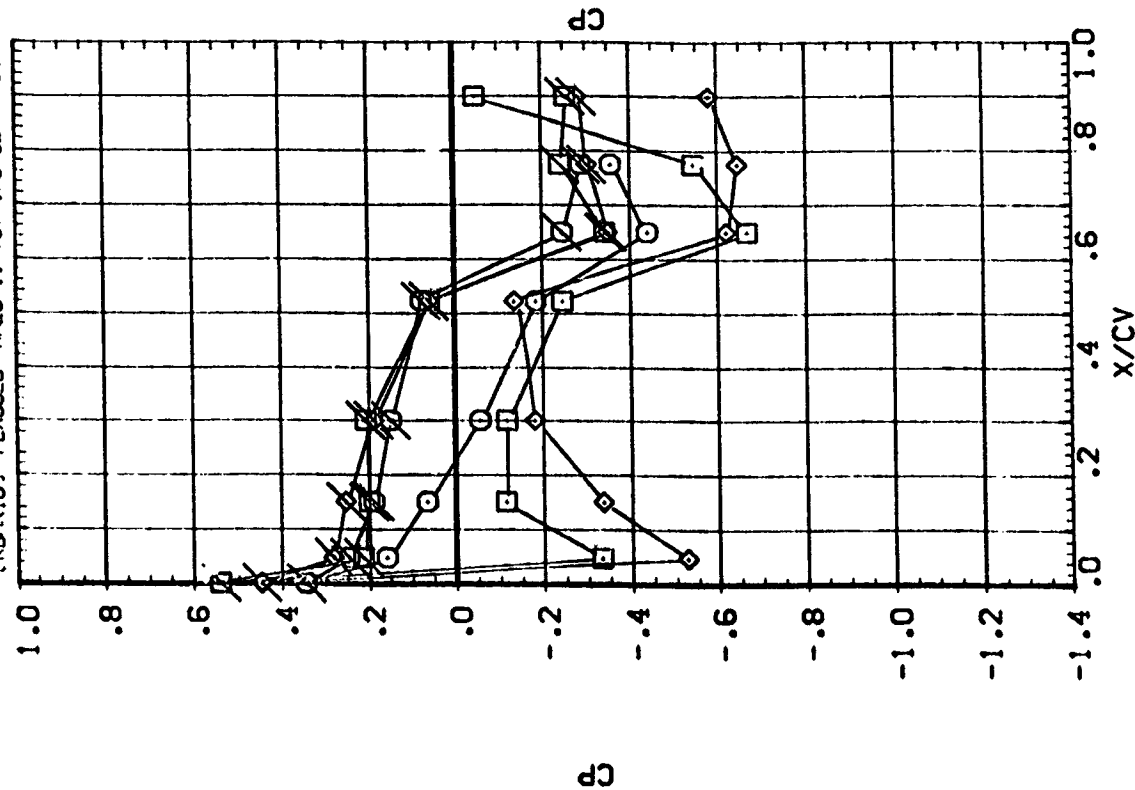
-5.000

.000

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RBMV:6) OPEN AMES 11-707 :A9 C2A + S3 + T9 LEFT VERTICAL

(RBMV:6) FLAGGED AMES 11-707 :A9 C2A + S3 + T9 RIGHT VERTICAL

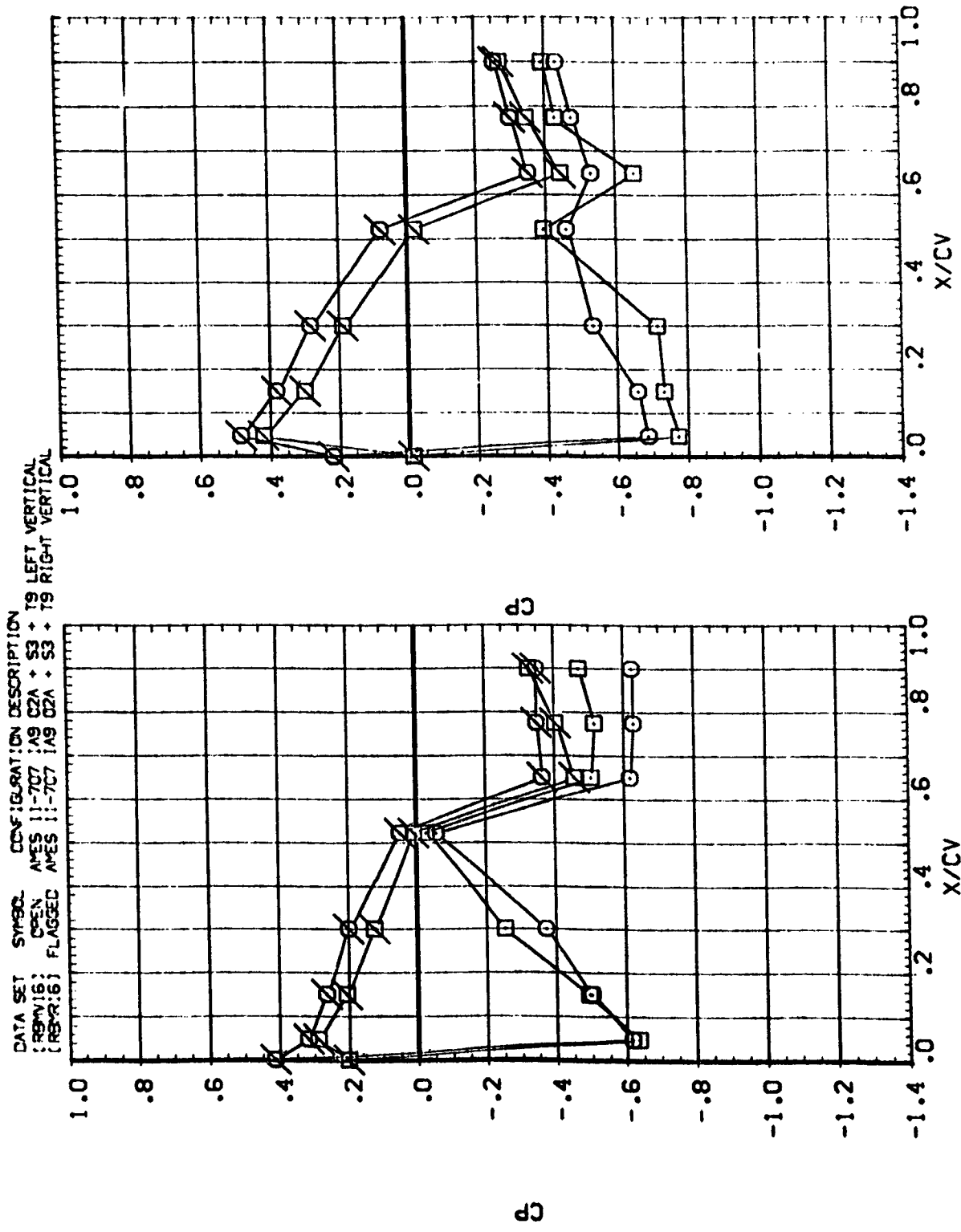


CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

PARAMETRIC VALUES
 .000 .500
 .000 .000
 .000 .000
 .000 .000

ALPHAT
 RJOER
 RJOFLR

SYMBOL Z/SV BETAT MACH
 .84C 4.110 1.247
 .925 8.200

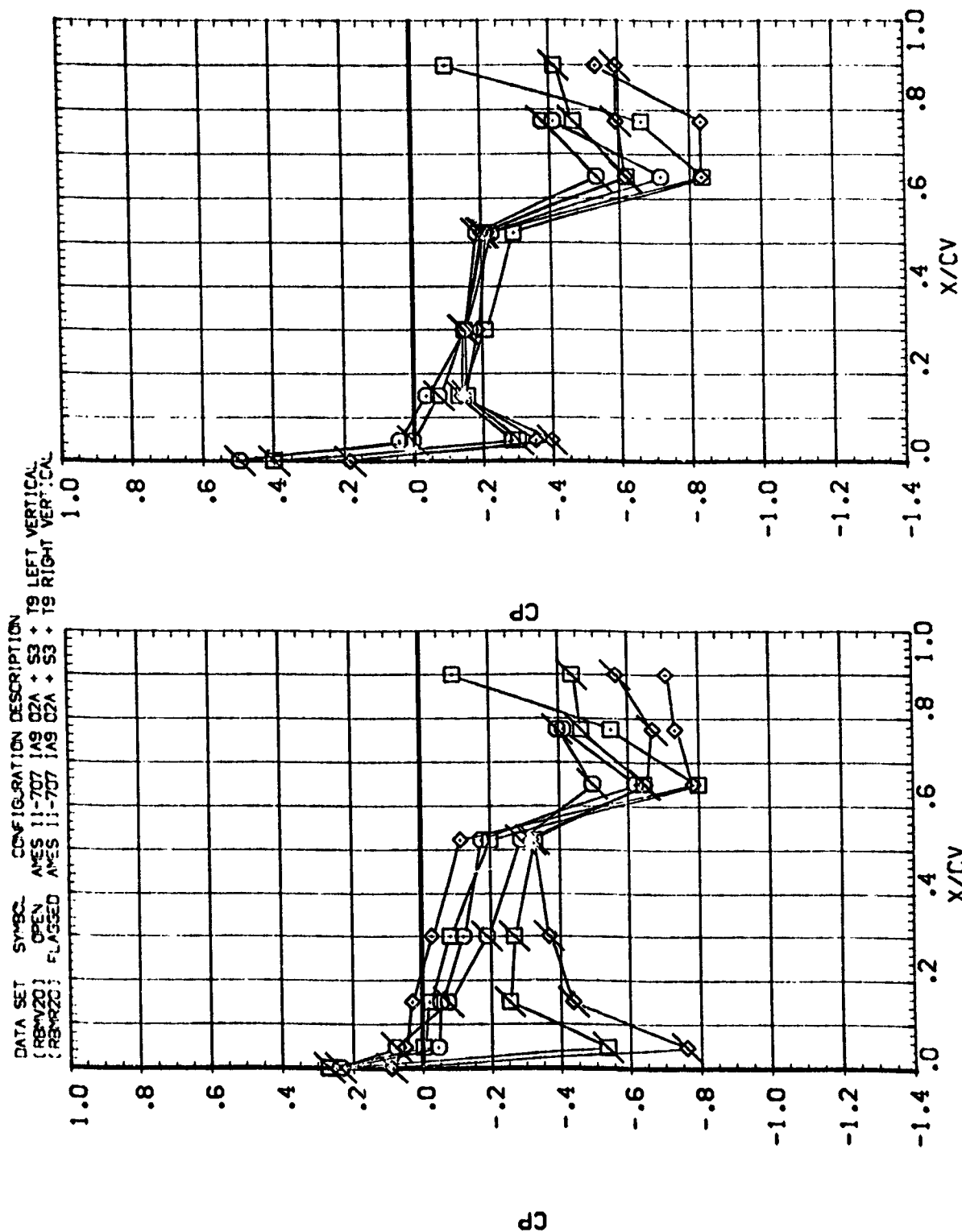


PARAMETRIC VALUES

ALPHAT	8.000	ORBNIC	.500
RJODER	-5.000	ELEVEN	.000
RJOFER	.000		

SYMBOL Z/BV BETAT MACH

◇	.158	-4.070	1.101
○	.316	.020	
□	.600		





SYMBOL

Z/BV

BETAT

MACH

1:01

.84C

.925

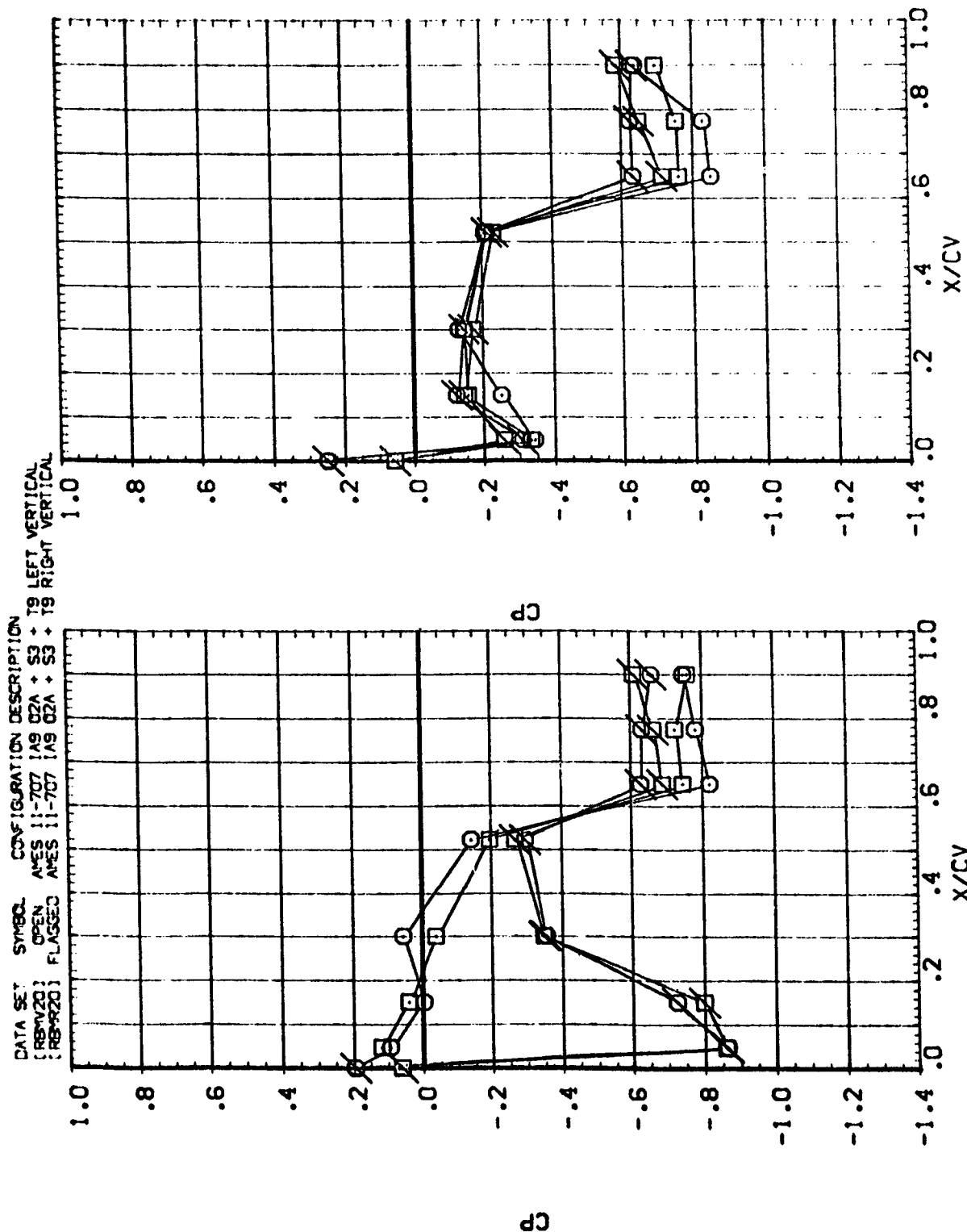
-4.070

.020

ALPHA
RUDER
RUDER

PARAMETRIC VALUES
8.000
-5.000
.000

.500
.000
.000



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

PARAMETRIC VALUES

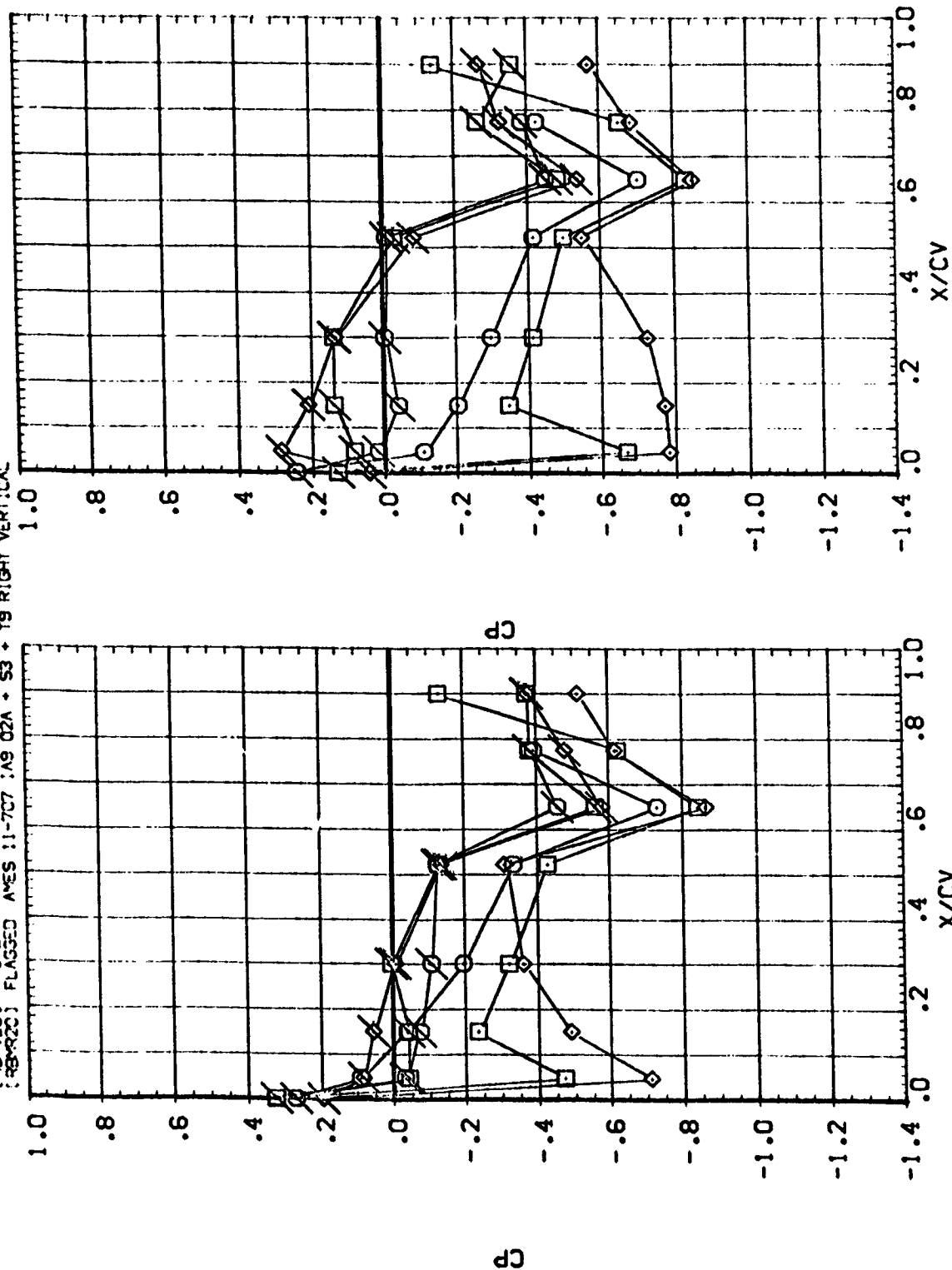
ALPHAT	8.000	ORB'NC	.500
RJODER	-5.000	ELEVON	.000
RJOFLL	.000		

SYMBOL Z/3V BETA* MACH

.58	4.16C	1.101
.316	8.30C	
.60C		

DATA SET: SYMBO CONFIGURATION DESCRIPTION

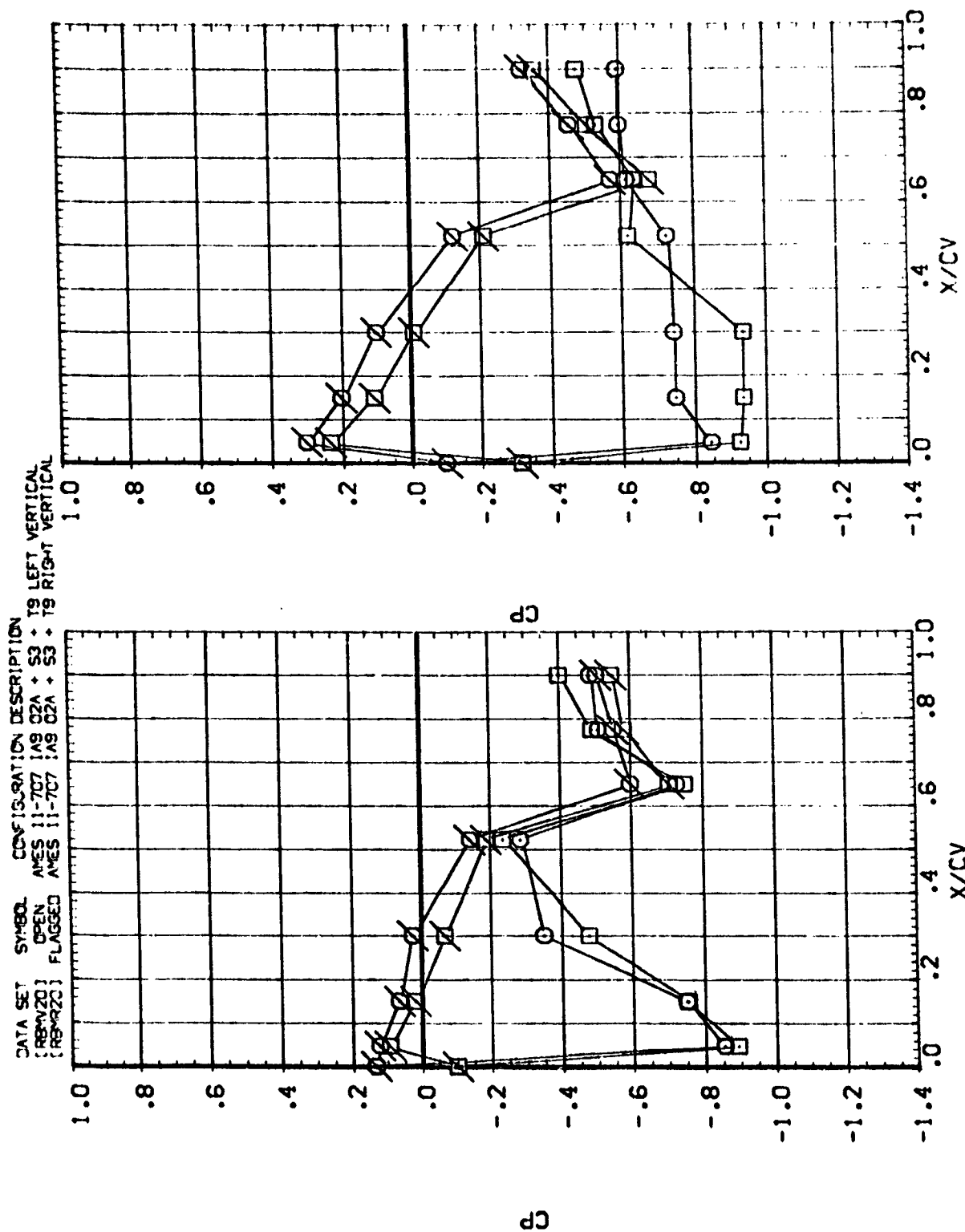
RBV20	OPEN	AXES 11-707	1A9	O2A	+ S3	+ T9	LEFT VERTICAL
RBV20	FLAGGED	AXES 11-707	1A9	O2A	+ S3	+ T9	RIGHT VERTICAL





SYMBOL Z/BV BETAT MACH
 .840 4.160 1.10:
 .925 8.300

PARAMETRIC VALUES
 ALPHAT 8.000 ORBINC .500
 RLODR -5.000 ELEVEN .000
 RLOFLR .000

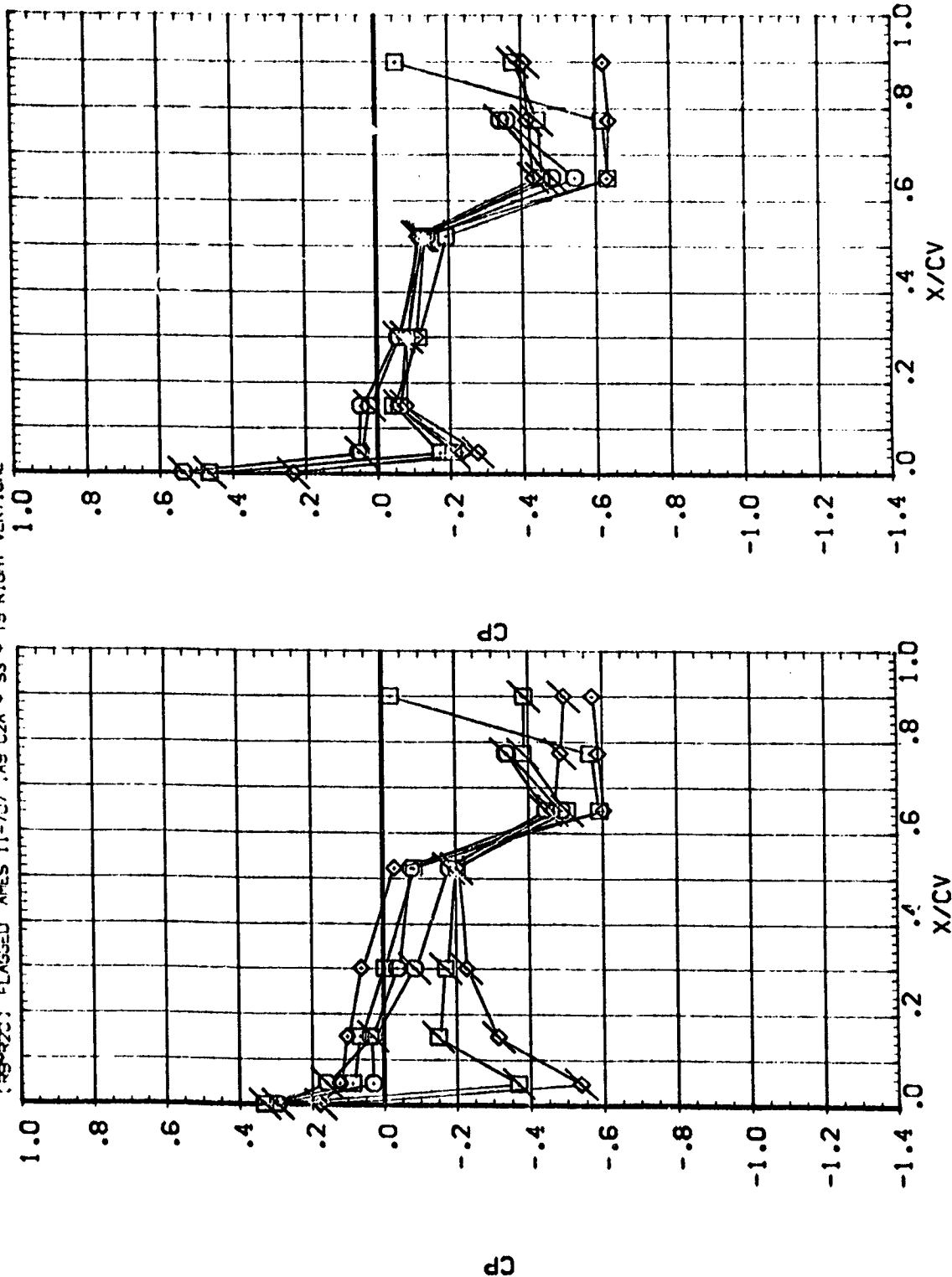




SYMBOL Z/SV BETA² MACH
○ .158 -4.040 1.246
□ .316 .010
◇ .600

PARAMETRIC VALUES
ALPHAT 8.000 ORBINC .500
RUDDER -5.000 ELEVON .000
RUDDFLR .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(RB-VZC) OPEN AMES 11-707 (A9 C2A + S3 + T9 LEFT VERTICAL
(RB-RZC) FLAGGED AMES 11-707 (A9 C2A + S3 + T9 RIGHT VERTICAL

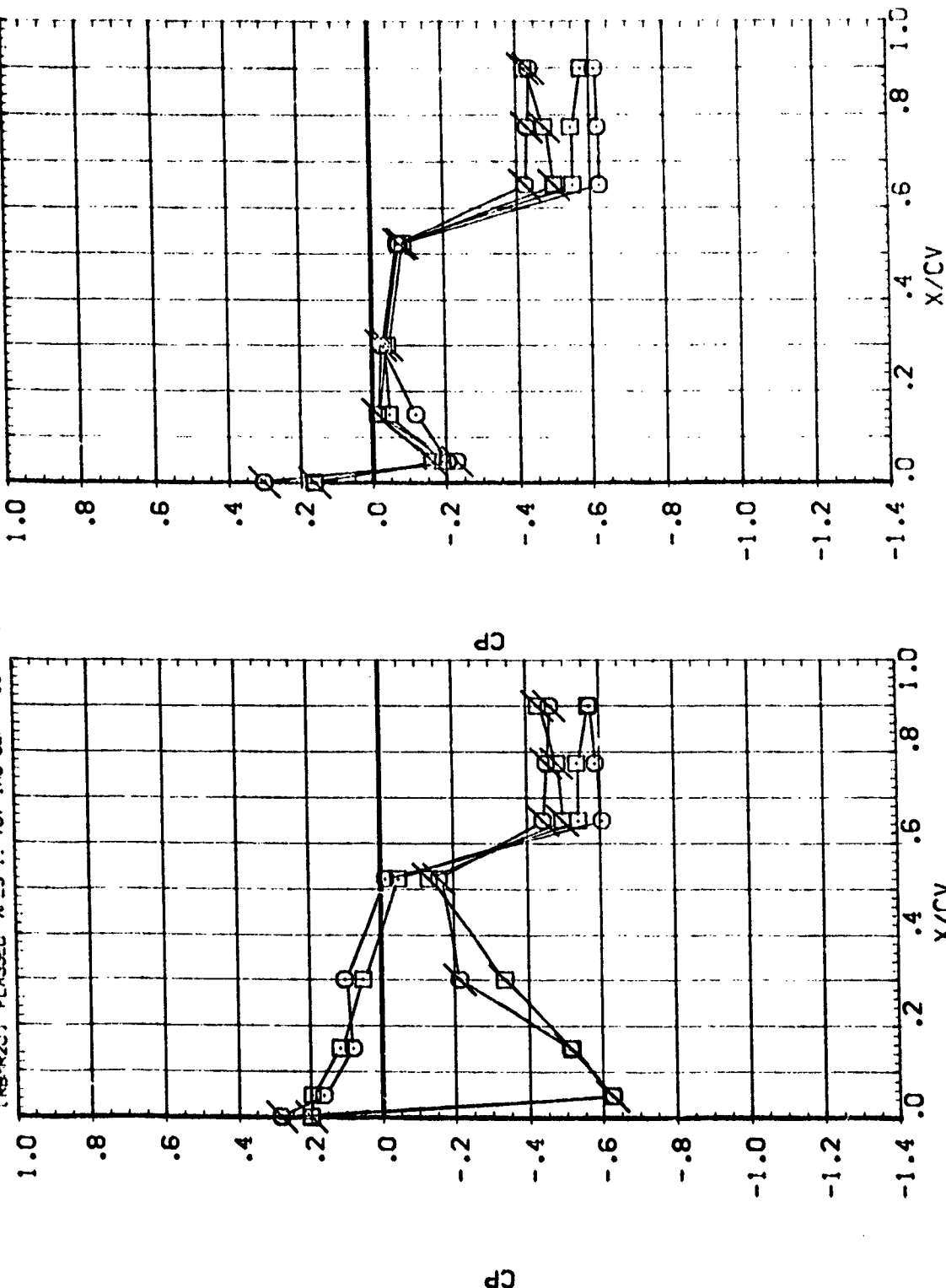




SYNCH. Z/BV .84C .925
 BETAT -4.04C .010
 MACH 1.246

PARAMETRIC VALUES
 ALPHAT 8.000
 RUDDER -5.000
 RUDDFLR .000
 ORBINC .500
 ELEVON .000

DATA SET SYMBO CONFIGURATION DESCRIPTION
 (RBMV20) OPEN AVES 1:-707 1A9 02A + S3 + T9 LEFT VERTICAL
 (RBMV20) FLASSED AVES 1:-707 1A9 02A + S3 + T9 RIGHT VERTICAL



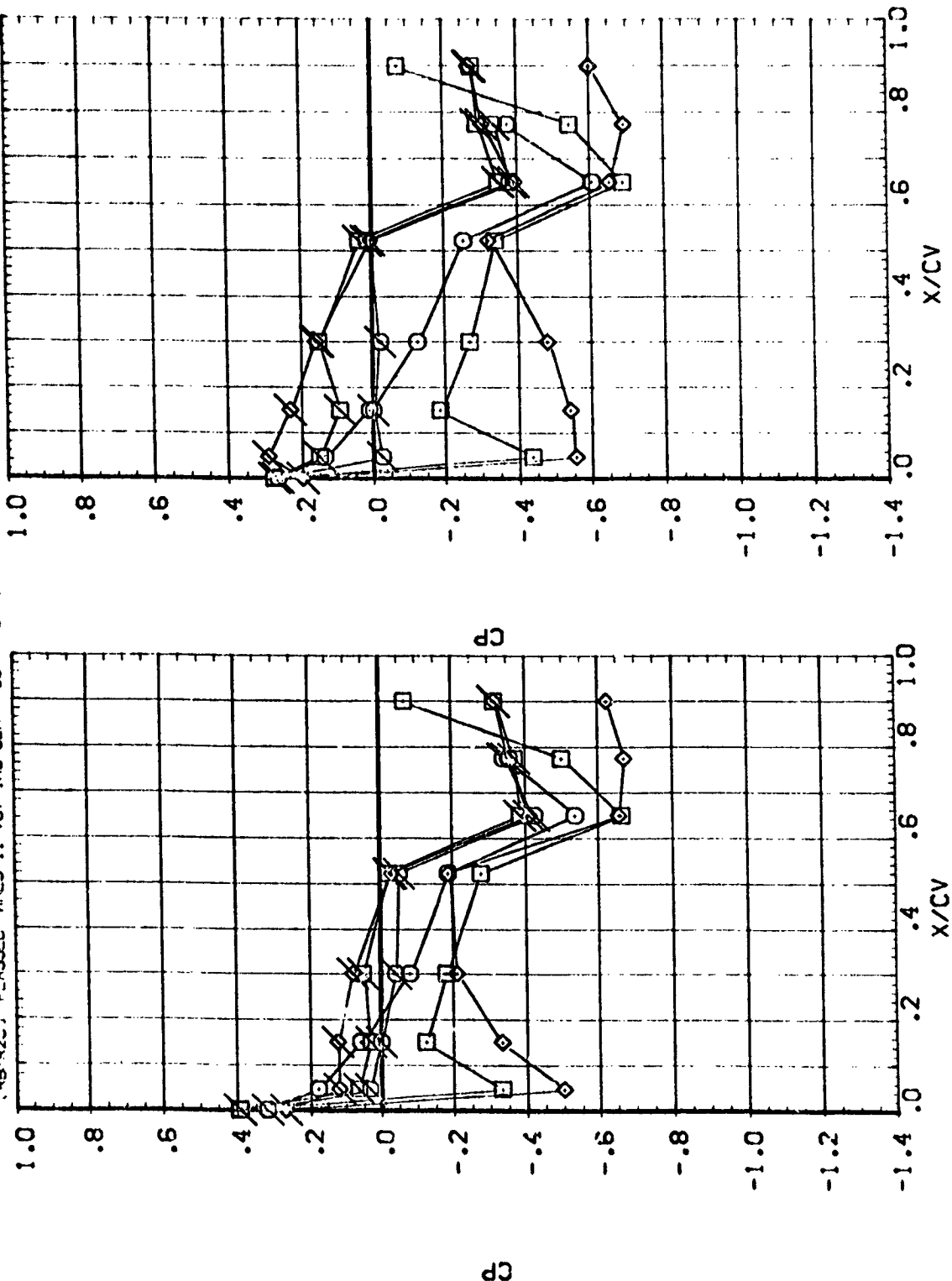
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES



SYNOPSIS Z/BV BETA* MACH
 .158 4.130 1.246
 .316 7.210
 .600

PARAMETRIC VALUES
 ALPHAT 8.000 CRBINC .500
 RUDDER -5.000 ELEVON .000
 RUDDLR .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RBMVZC) OPEN AMES 11-707 1A9 C2A + S3 + T9 LEFT VERTICAL
 (RBMVZC) FLAGGED AMES 11-707 1A9 C2A + S3 + T9 RIGHT VERTICAL



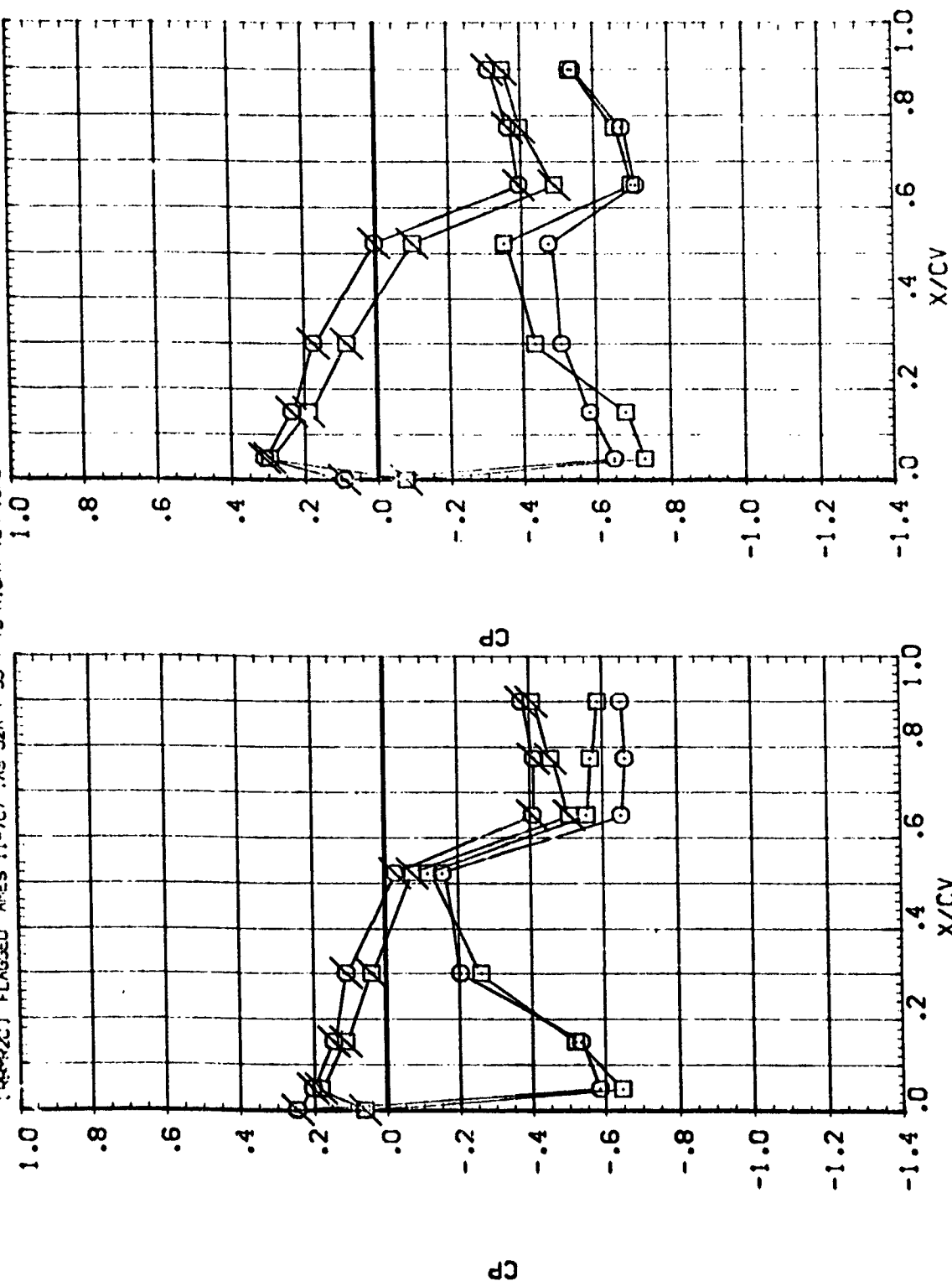
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES



SYMBOL Z/BV BETAT MACH
.84C 4.130 1.246
.92C 7.21C

PARAMETRIC VALUES
ALPHAT 8.000 ORBITIC .500
RUOER -5.000 ELEVON .000
RUOFLR .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(RBMV20) OPEN ANES 11-707 1A9 02A + S3 + T9 LEFT VERTICAL
(RBMV20) FLAGGED ANES 11-707 1A9 02A + S3 + T9 RIGHT VERTICAL



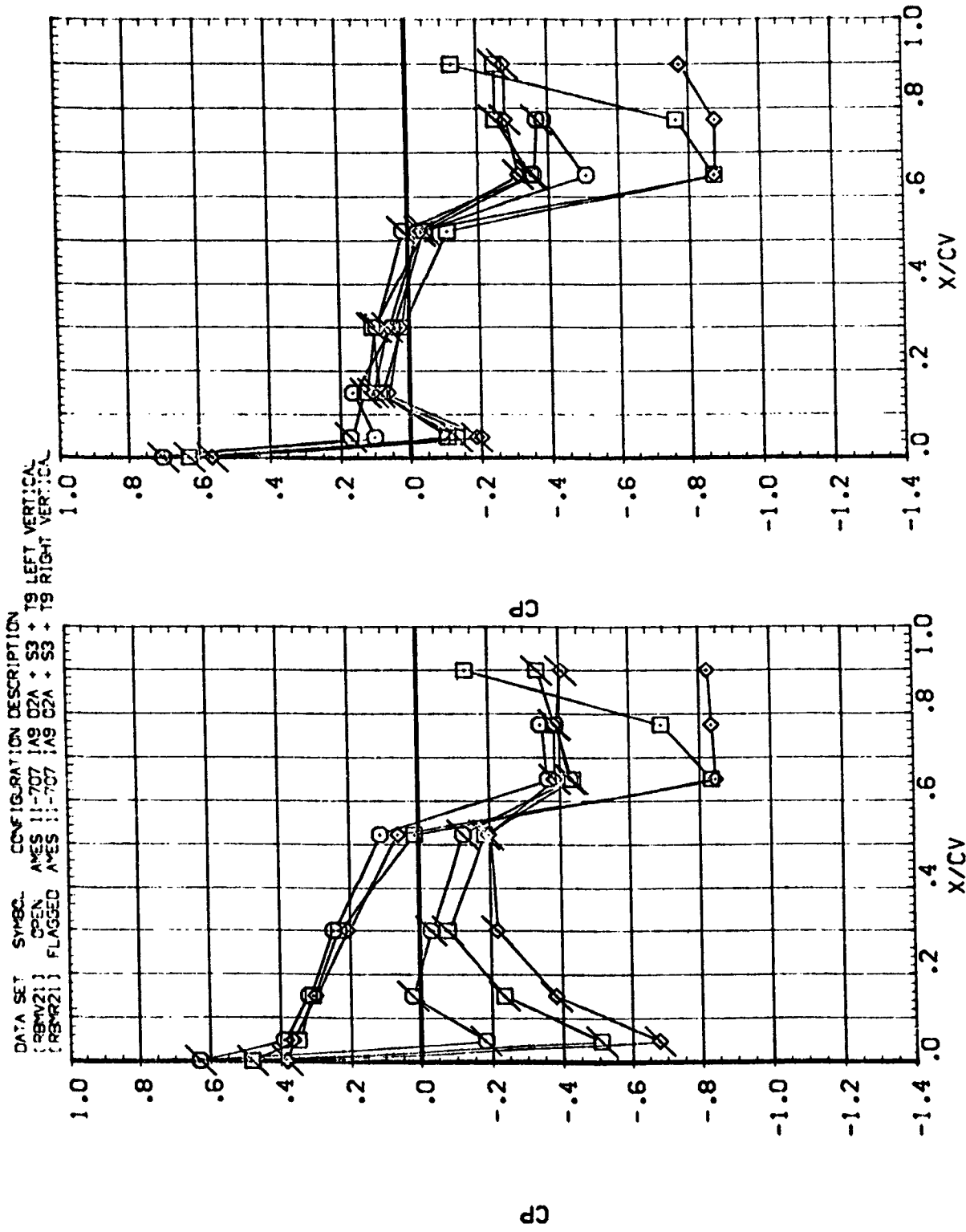
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

PARAMETRIC VALUES

ALPHAT	-8.000	DRBINC	.500
RUDER	-10.000	ELEVON	.000
RJFLR	.000		

SYMBOL

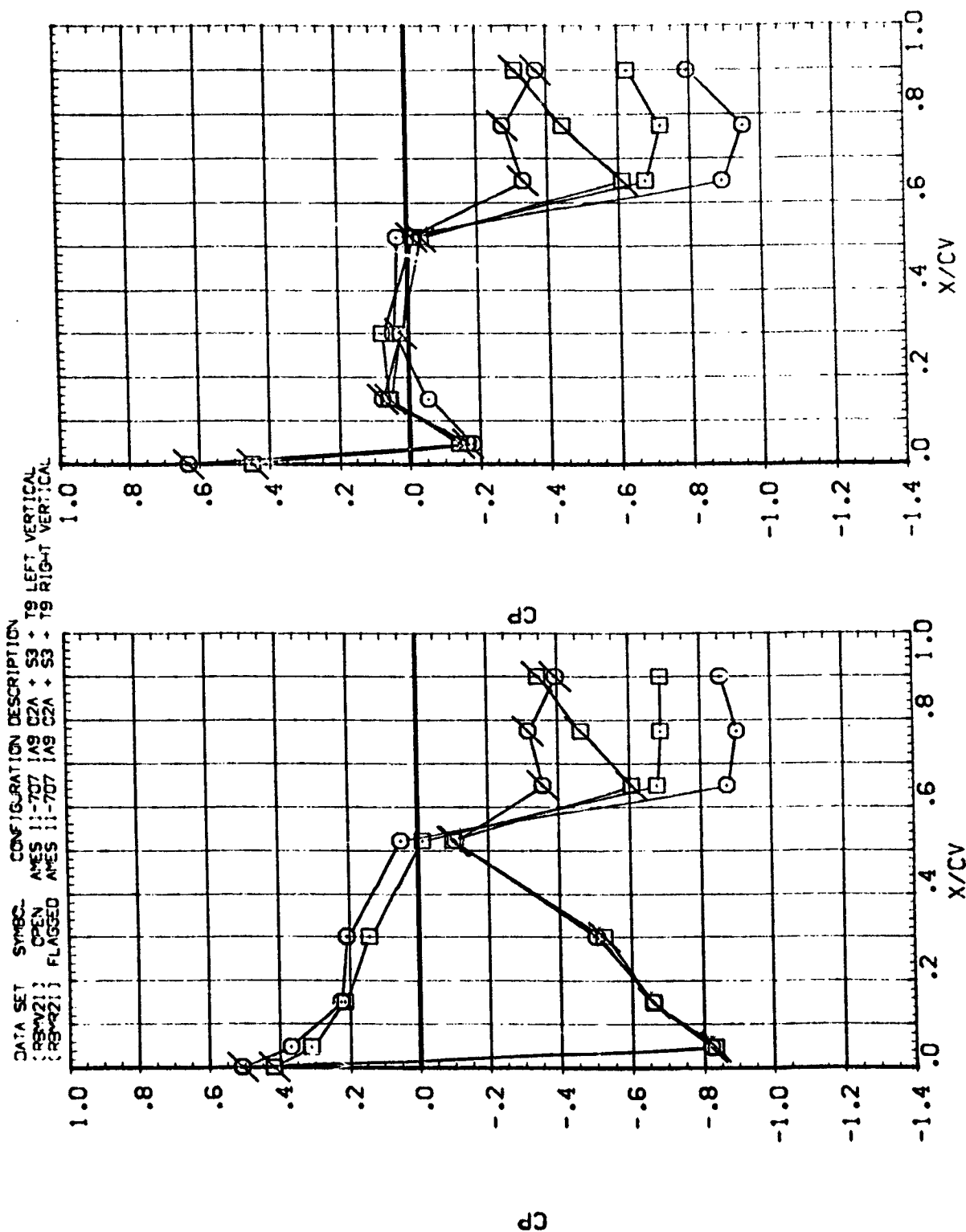
Z/BV	.158	BTAT	-4.080	MACH	1.100
	.316		.020		
	.600				



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES



SYMBOL	Z/BN	BETAT	MACH	PARAMETRIC VALUES
○	.84C	-4.080	1.100	ALPHAT
□	.975	.020		RUDDER
				RJOFER
				-8.000
				-10.000
				.000
				.000
				.000



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

PARAMETRIC VALUES

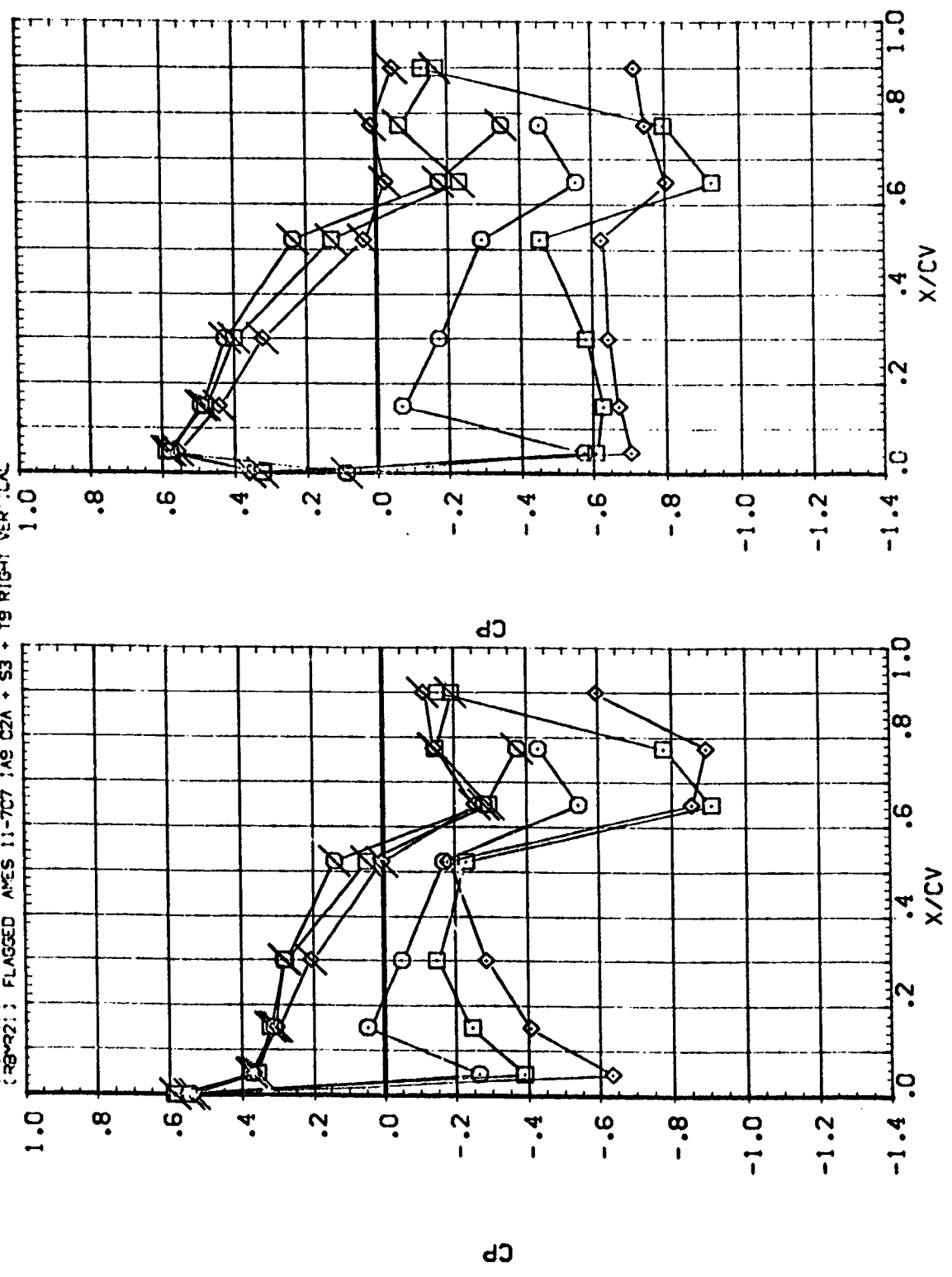
ALPHAT	-8.000	ORBNIC	.500
RUDDER	-10.000	ELEVON	.000
RJDFLR	.000		

SYMBOL Z/BN BETAT MACH

○	.58	4.150	1.100
□	.316	8.300	
◇	.600		

DATA SET SYMBOL CONFIGURATION DESCRIPTION

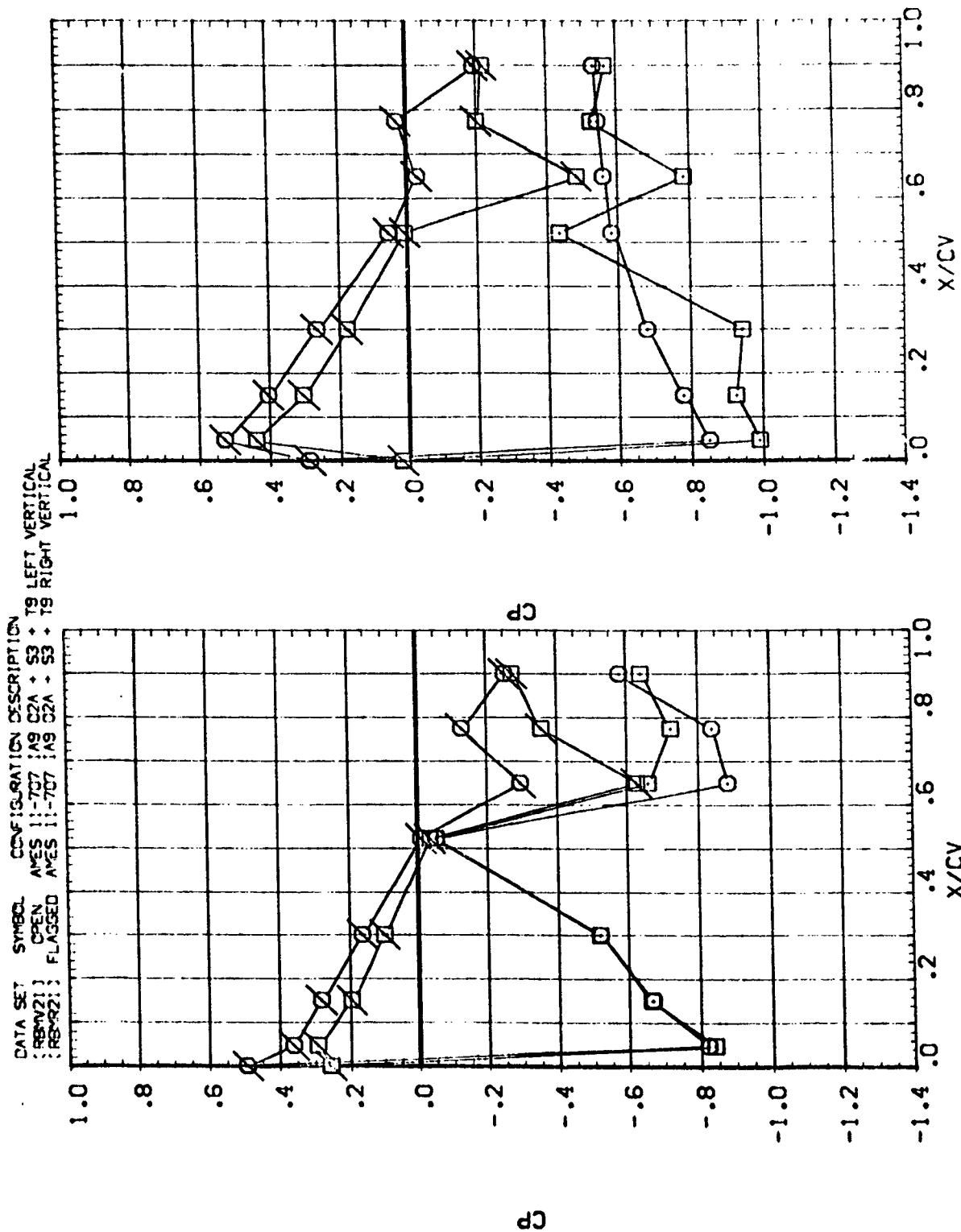
(RBMV2):	OPEN	AMES 11-707 1A9 C2A + S3 + T9 LEFT VERTICAL
(RBMV2):	FLAGGED	AMES 11-707 1A9 C2A + S3 + T9 RIGHT VERTICAL



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES



SYMBOL	Z/BV	BETA	MACH	ALPHA	PARAMETRIC VALUES
□	.84C	4.150	1.100	RJODER	-8.000
□	.925	8.300		RJOFLE	-10.000
					.000
					.500
					.000

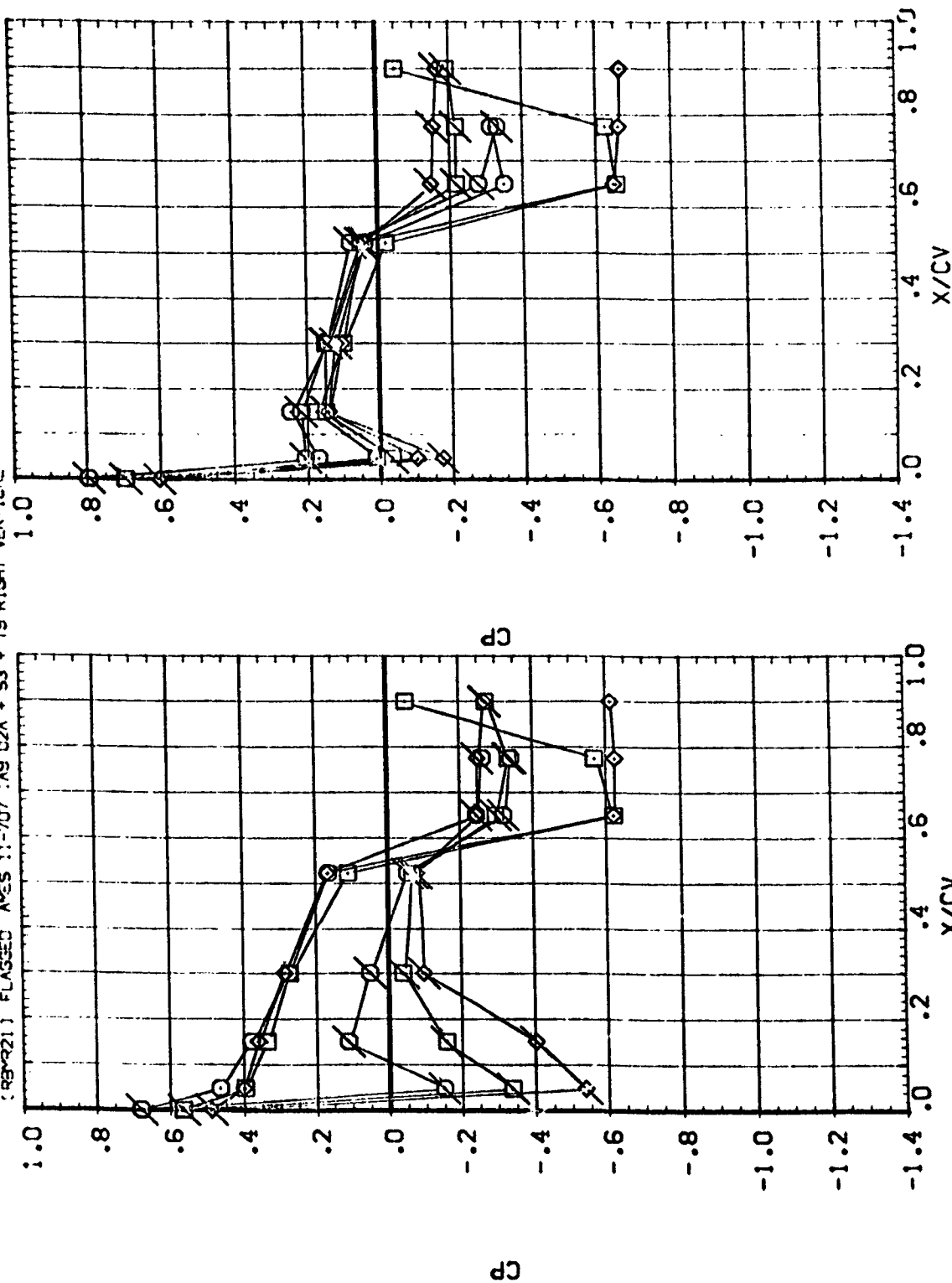


CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

PARAMETRIC VALUES
 ALPHAT -8.000 CRBTNC .500
 RUDDER -10.000 ELEVEN .000
 RUOFLR .000

SYMBOL Z/BV BETAT MACH
 .158 -4.050 1.245
 .316 .020
 .500

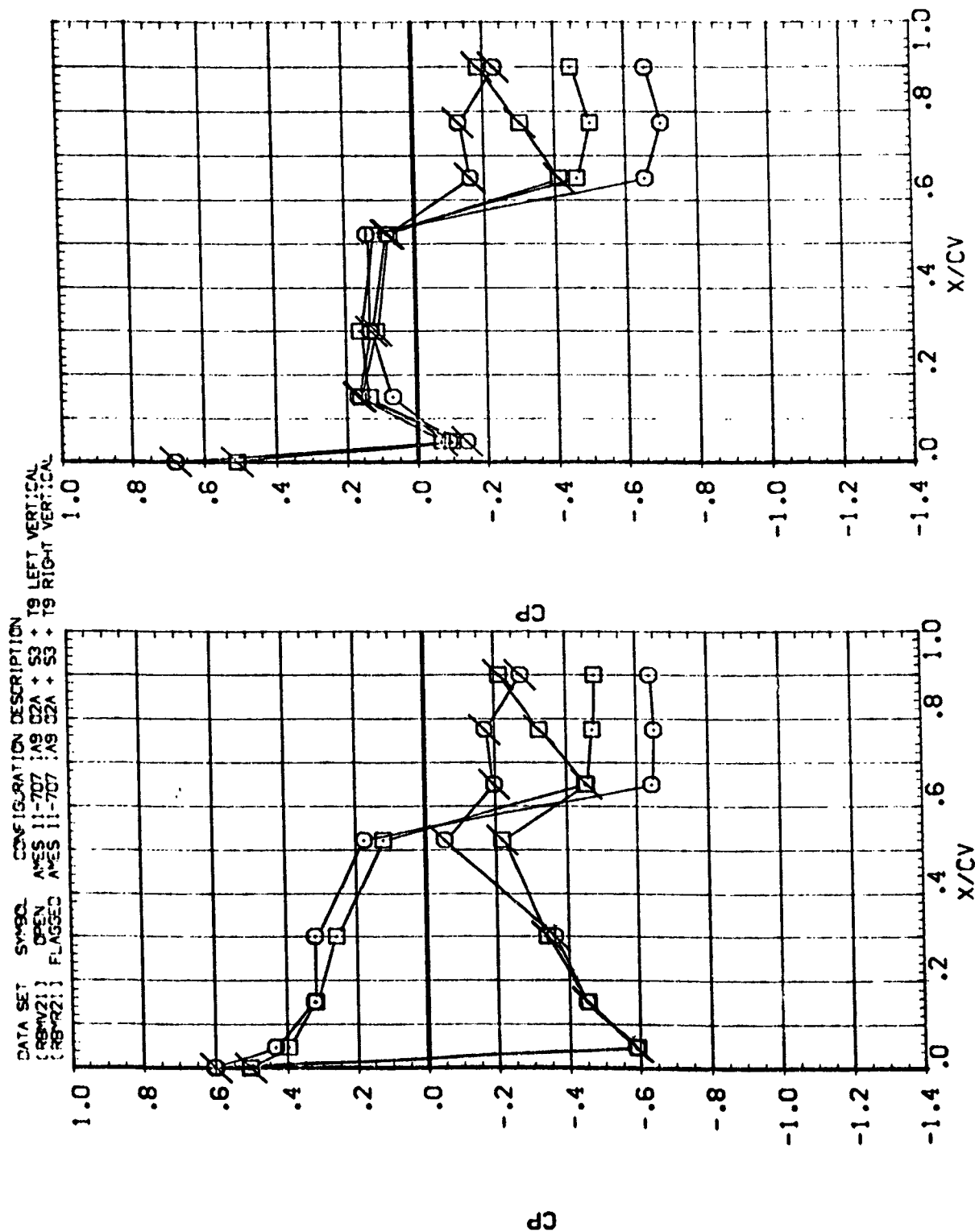
DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RBMV2) OPEN AVES 11-707 1A9 02A + S3 + T9 LEFT VERTICAL
 (RBMV2) FLASSED AVES 11-707 1A9 02A + S3 + T9 RIGHT VERTICAL





SYMBOL Z/BV BETAT MAC-
0.840 -4.050 1.245
0.925 .020

PARAMETRIC VALUES
ALPHAT -8.000 ORBINC .500
RLOOR -10.000 ELEVEN .000
RLOOR .000

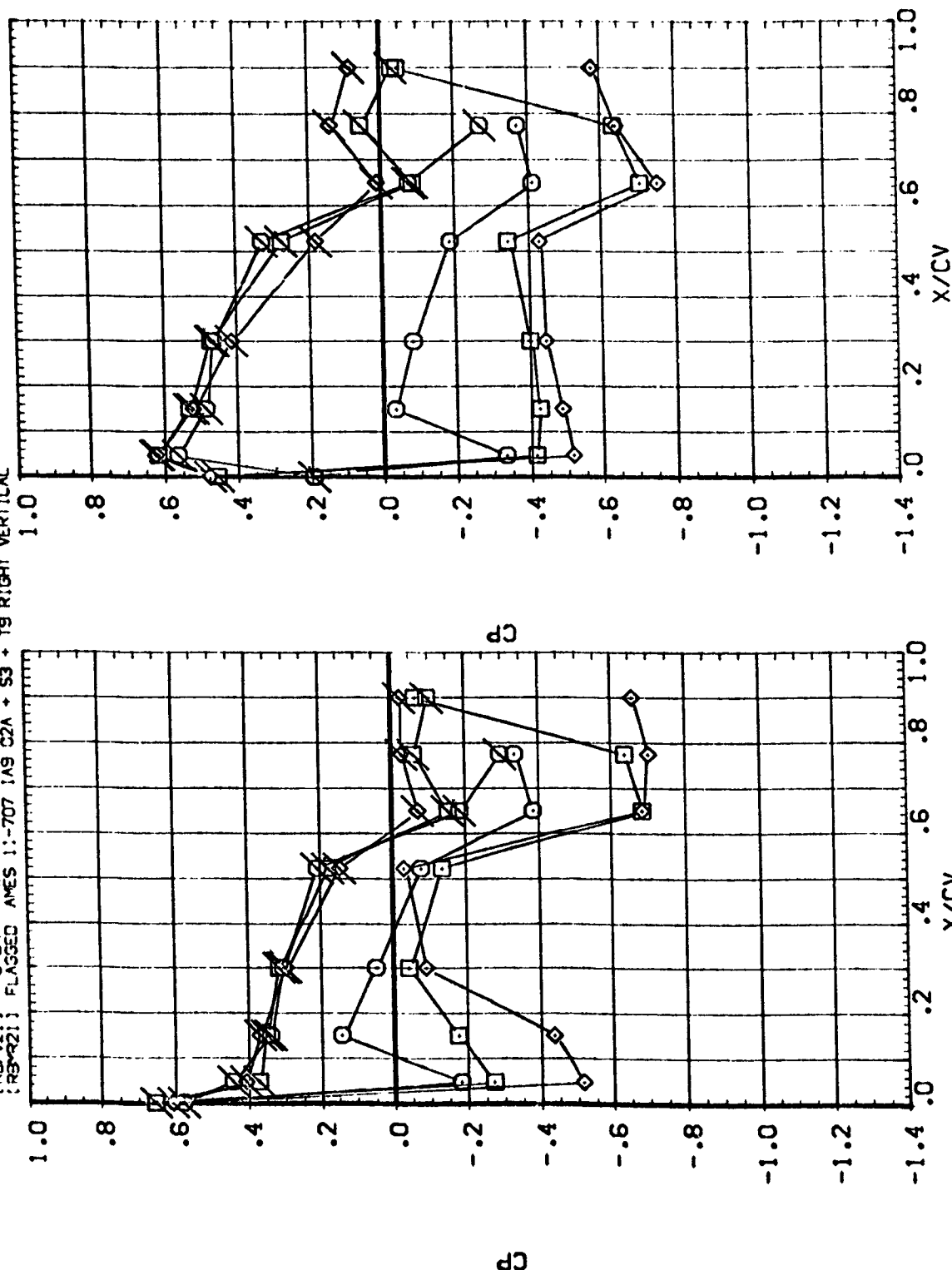


CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

PARAMETRIC VALUES
 ALPHAT -8.000 ORBINC .500
 RUDDER -10.000 ELEVON .000
 RUOFLR .000

SYNCH Z/BV BETAT MACH
 .158 4.130 1.245
 .316 8.260
 .600

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RBMV21) OPEN AMES 11-707 [A9 C2A + S3 + T9 LEFT VERTICAL
 (R3-R21) FLAGGED AMES 11-707 [A9 C2A + S3 + T9 RIGHT VERTICAL

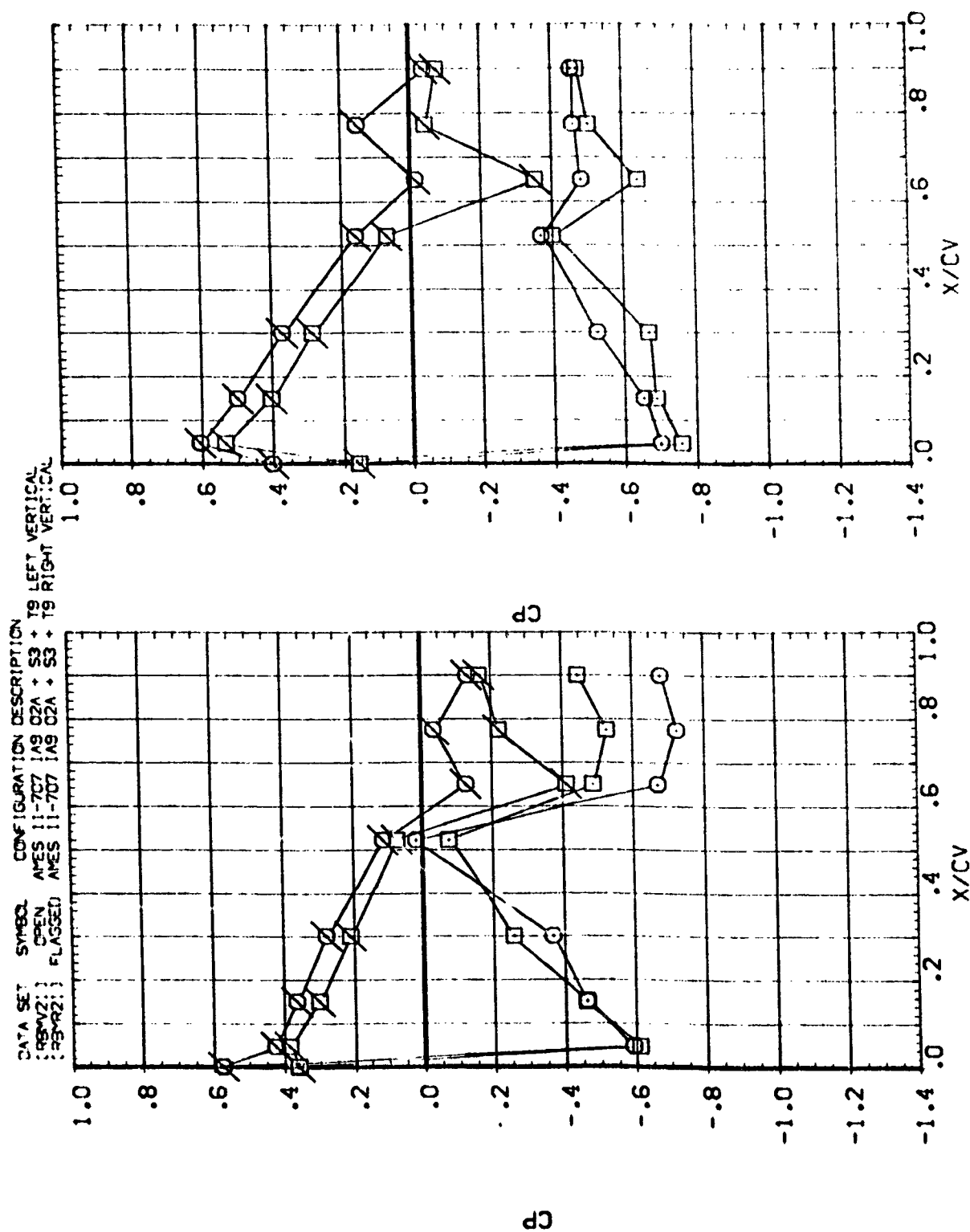


CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES



SYMBOL Z/BV BETAT MACH
 .843 4.130
 .925 8.260

PARAMETRIC VALUES
 ALPHAT -8.000
 RUDDER -10.000
 RUOFLR .000
 ORBINC .500
 ELEVEN .000



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

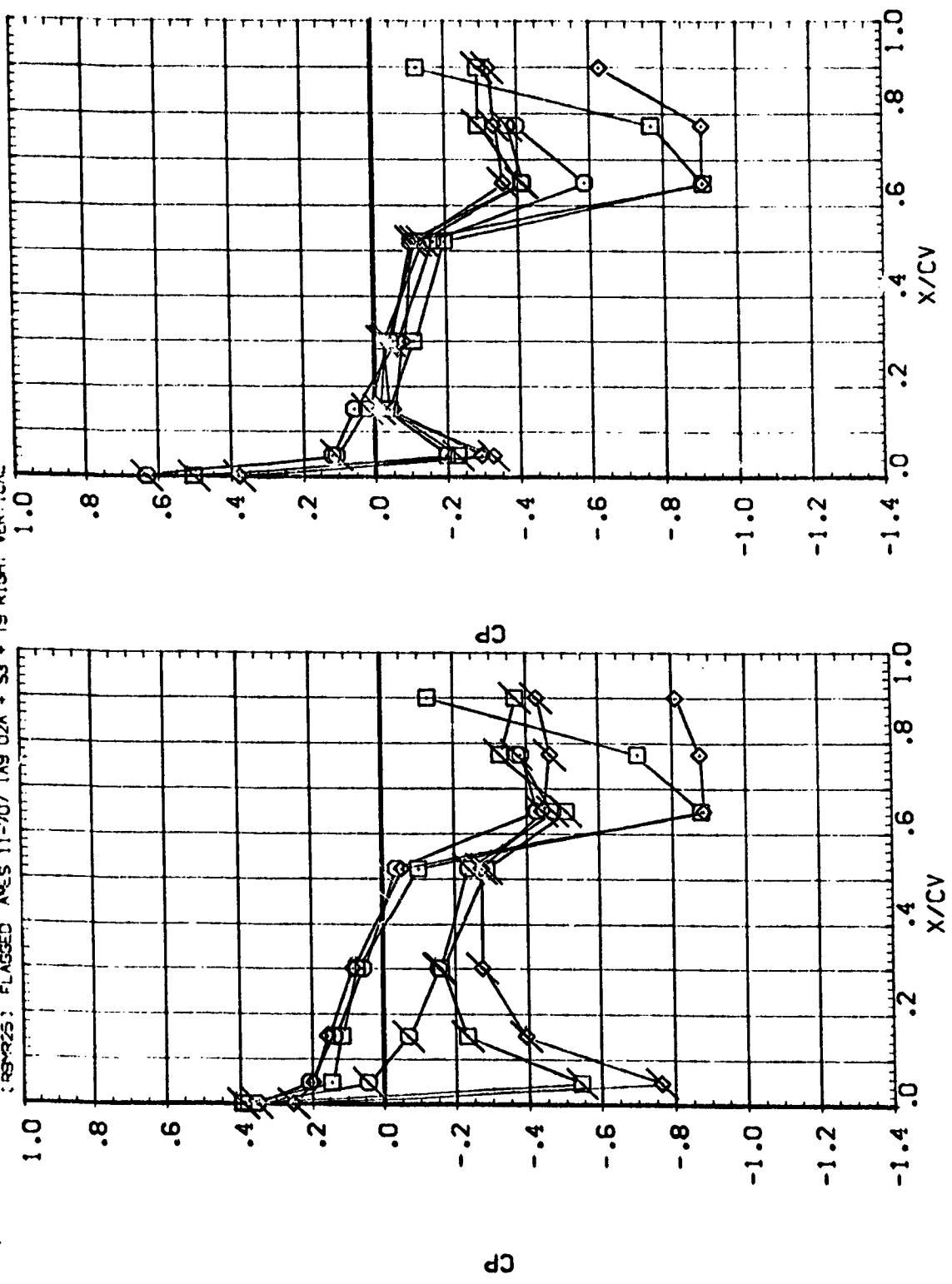
PARAMETRIC VALUES

ALPHAT	.000	CRBINC	.500
RUDDER	-10.000	ELEVON	.000
RJOF LR	.000		

SYMBOL Z/BV BETA⁺ MACH

○	.158	-4.090	1.098
□	.316	.020	
◇	.600		

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RPMVZS) CRBN AMES 11-707 1A9 02A + S3 + T9 LEFT VERTICAL
 (RPMVZS) FLAGGED AMES 11-707 1A9 02A + S3 + T9 RIGHT VERTICAL

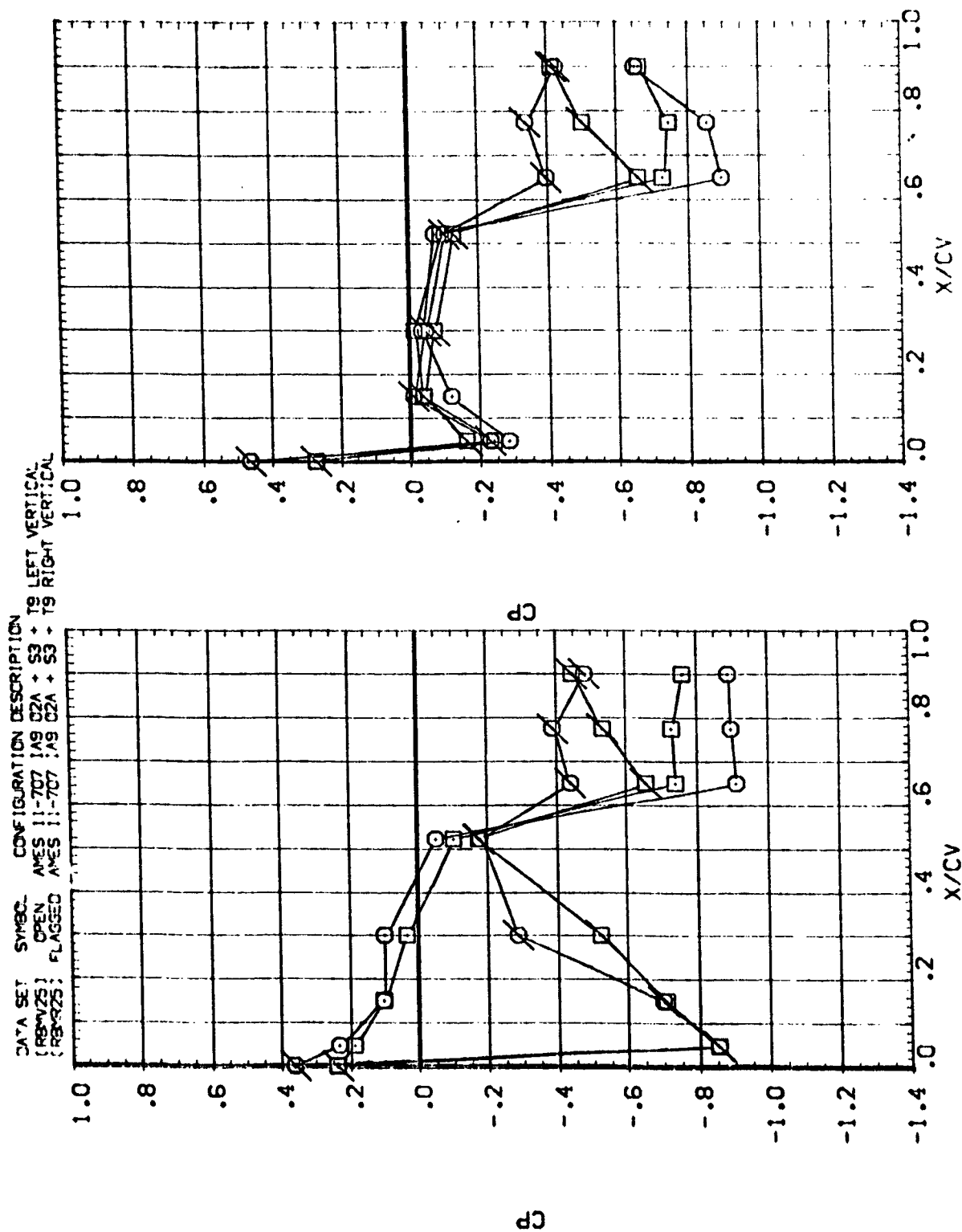


CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES



SYMBOL Z/BV BETA² MACH
 0 .840 -4.090 1.098
 1 .925 .020

PARAMETRIC VALUES
 ALPHAT .000 ORBINC .500
 RUDDER -10.000 ELEVON .000
 RUOFLR .000



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

PARAMETRIC VALUES

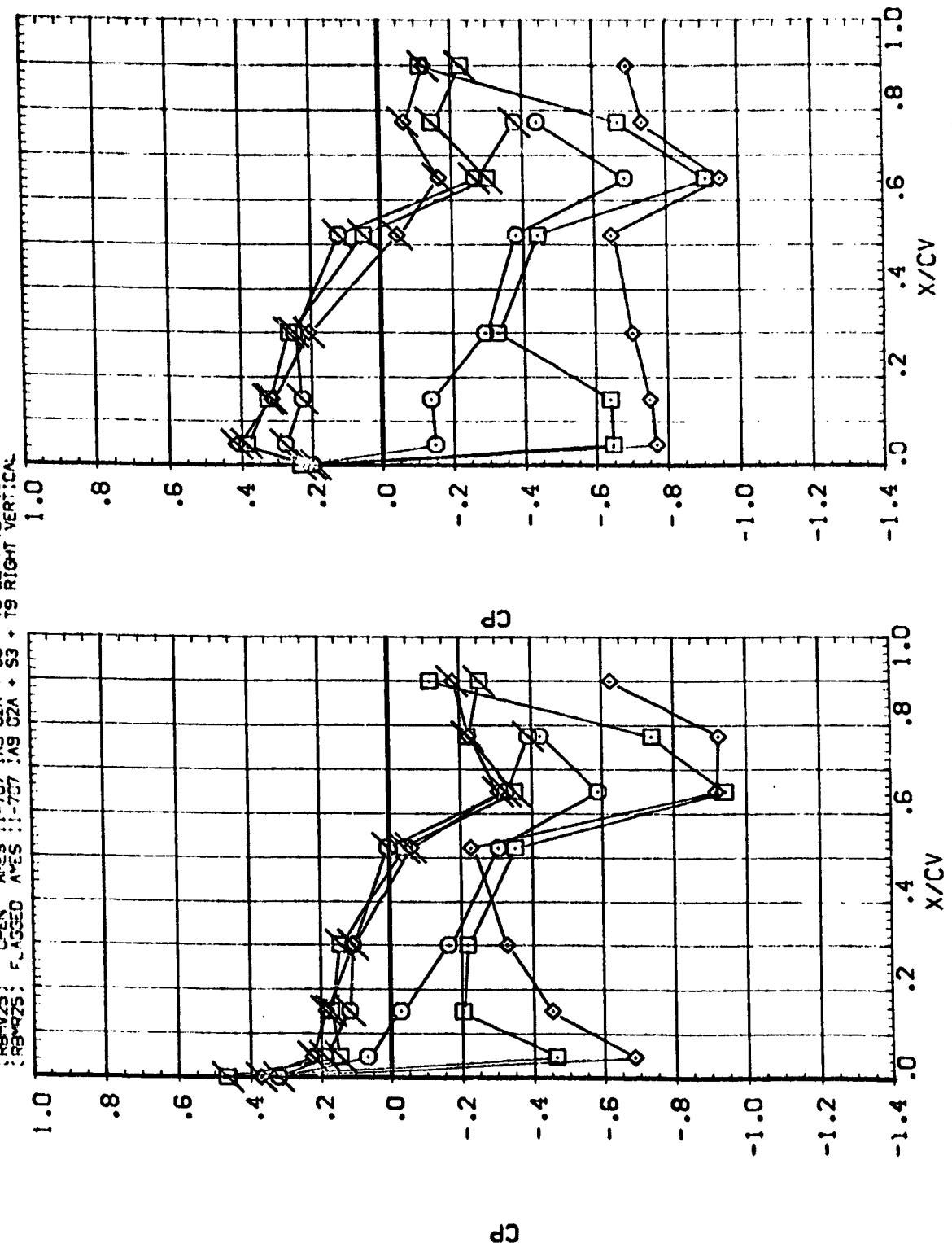
ALPHA	.000	ORIGIN	.500
RUDDER	-10.000	ELEV	.000
RUDDER	.000		

SYMBOL Z/BV BETAT MACH

○	.158	4.130	1.098
□	.316	8.260	
◇	.600		

DATA SET: SYMBOL CONFIGURATION DESCRIPTION

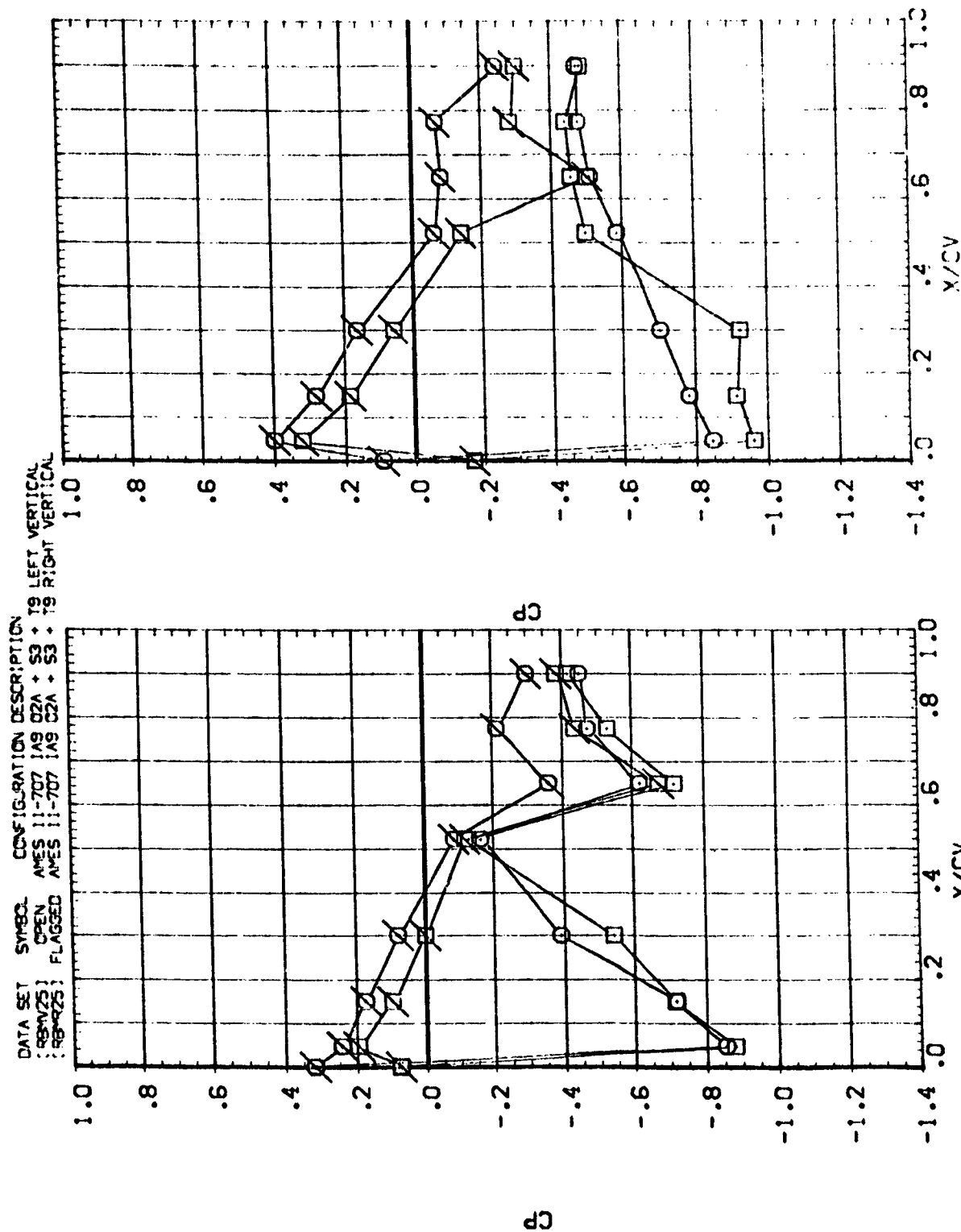
(RBMVZS)	OPEN	AMES 11-707	1A9 02A + S3 + T9	LEFT VERTICAL
(RBMVZS)	CLOSED	AMES 11-707	1A9 02A + S3 + T9	RIGHT VERTICAL





SYMBOL Z/BV BETAT MACH
 .840 4.130 1.098
 .925 8.260

PARAMETRIC VALUES
 ALPHAT .000 CRBINC .500
 RUDDER -10.000 ELEVEN .000
 RUJFLR .000

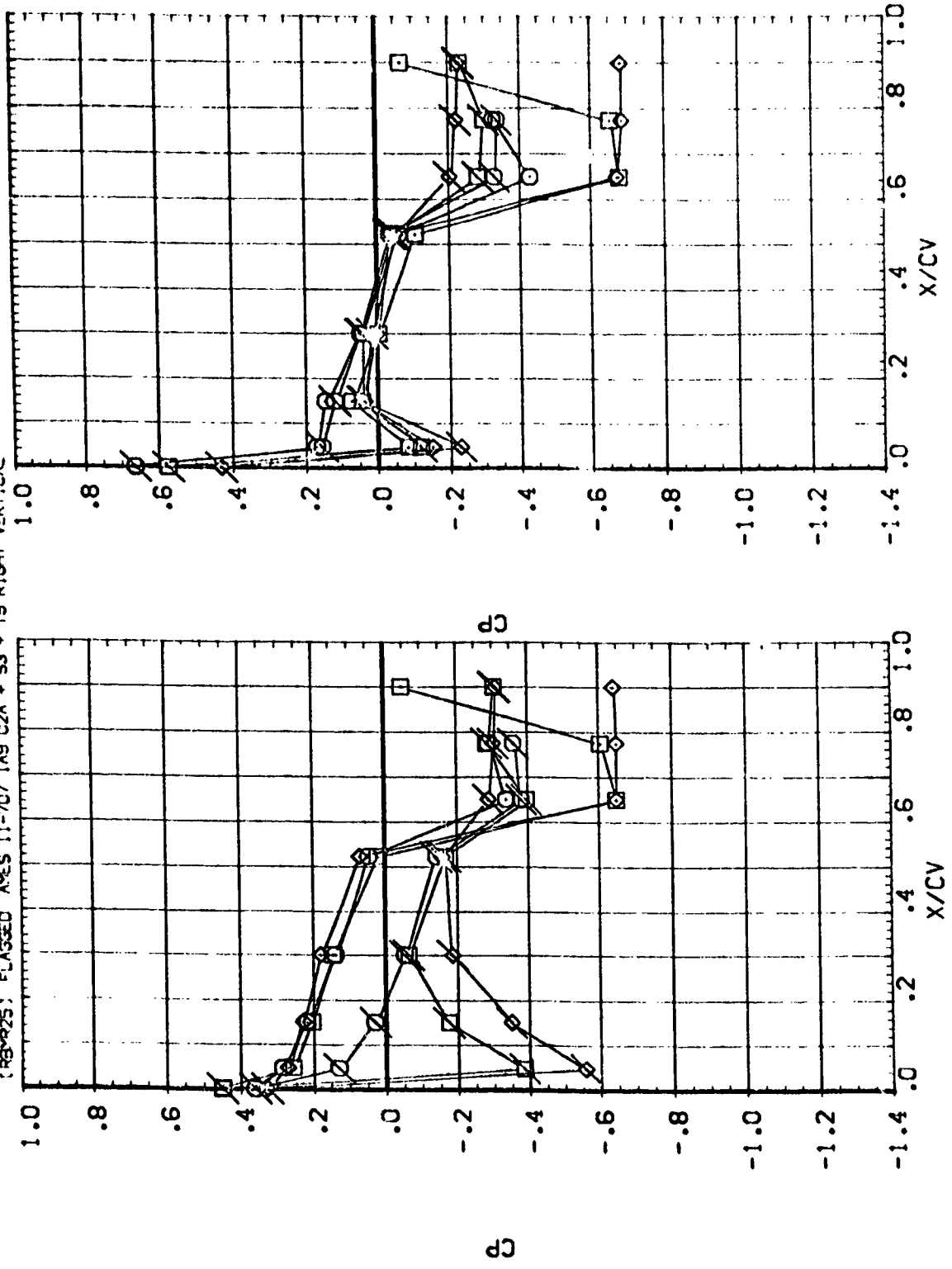


CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES



SYMBOL Z/BV BETAT MACH-
 .158 -4.070 1.246
 .316 .020
 .500
 PARAMETRIC VALUES
 .000 ORBINC .500
 -10.000 ELEVON .000
 ALPHAT
 RUDDER
 RUOFLR

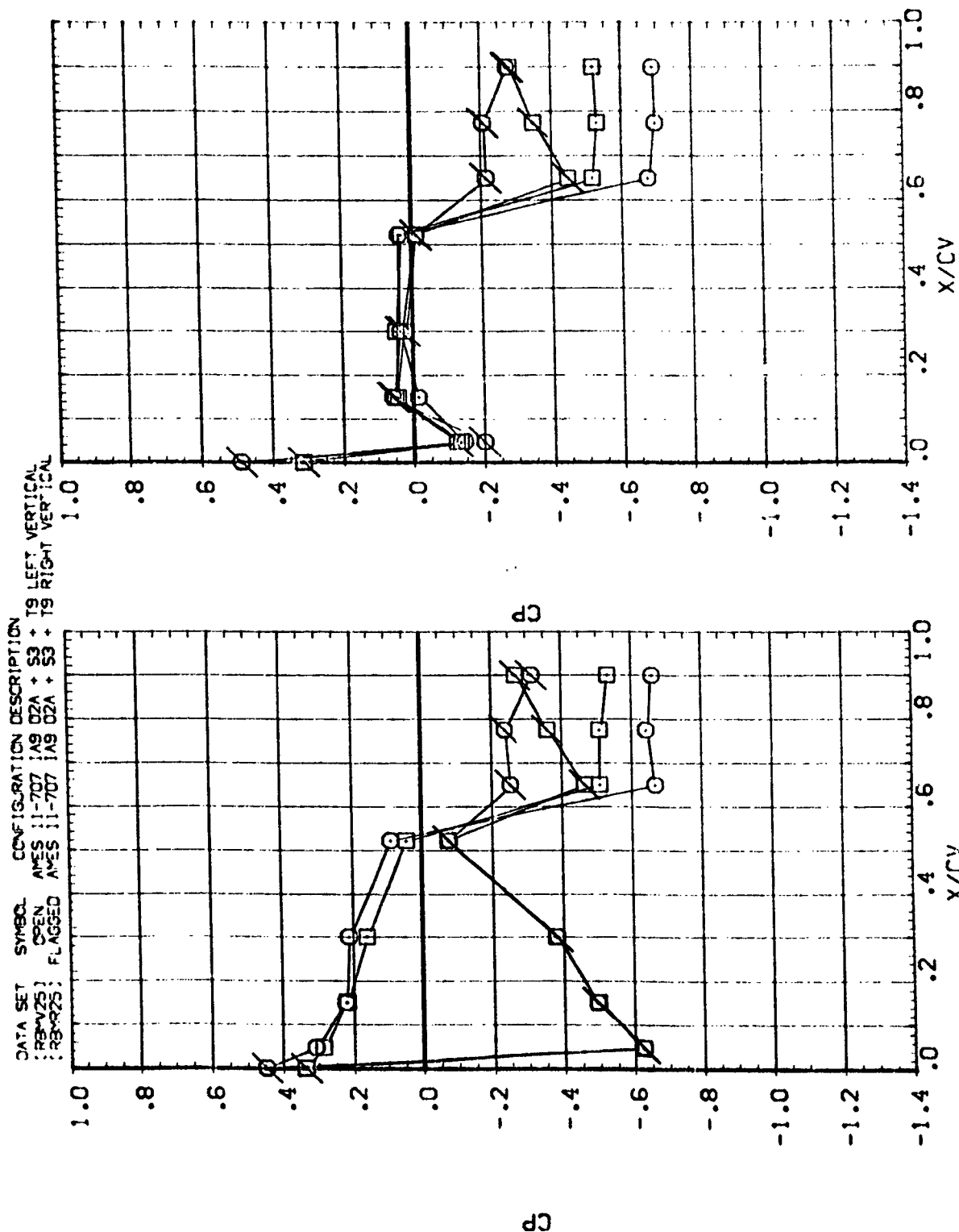
DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RBMV25) OPEN AYES 11-707 1A9 02A + S3 + T9 LEFT VERTICAL
 (RBMV25) FLASSED AYES 11-707 1A9 02A + S3 + T9 RIGHT VERTICAL



III

SYMBOL Z/BV .84C .925
 BETAN -4.070 .020
 MACH 1.246

PARAMETRIC VALUES
 ALPHAT .000 ORBINC .500
 RUDDER -10.000 ELEVON .000
 RUDDFLR .000



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

PARAMETRIC VALUES

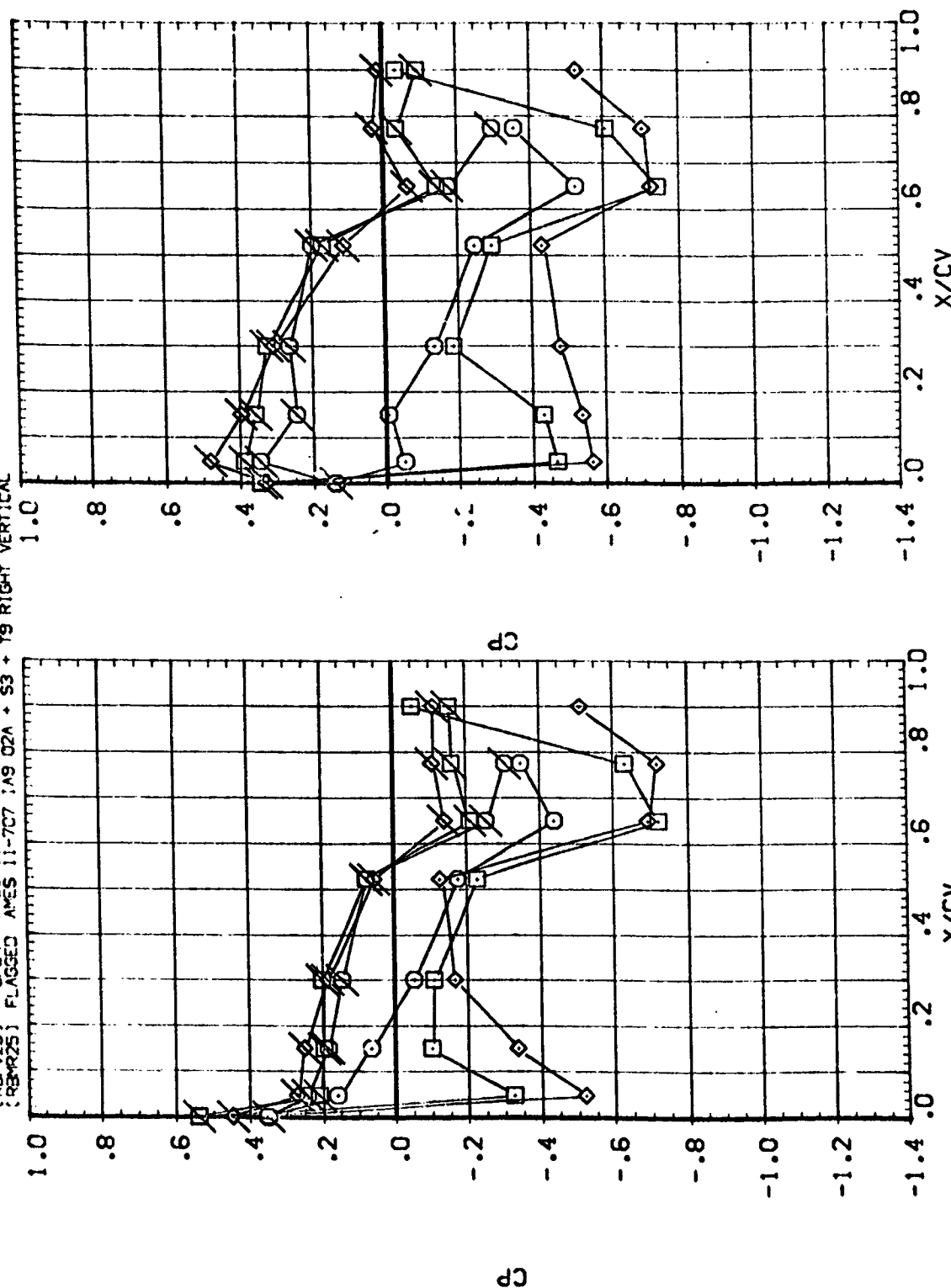
ALPHAT	.000	ORBNIC	.500
RUDDER	-10.000	ELEVON	.000
RUDFLR	.000		

SYMBOL Z/BV BETAT MACH

○	.158	4.110	1.246
□	.316	8.200	
◇	.600		

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RBMVZS)	OPEN	APES 11-707 1A9 02A + S3 + T9 LEFT VERTICAL
(RBMVZS)	FLAGGED	APES 11-707 1A9 02A + S3 + T9 RIGHT VERTICAL

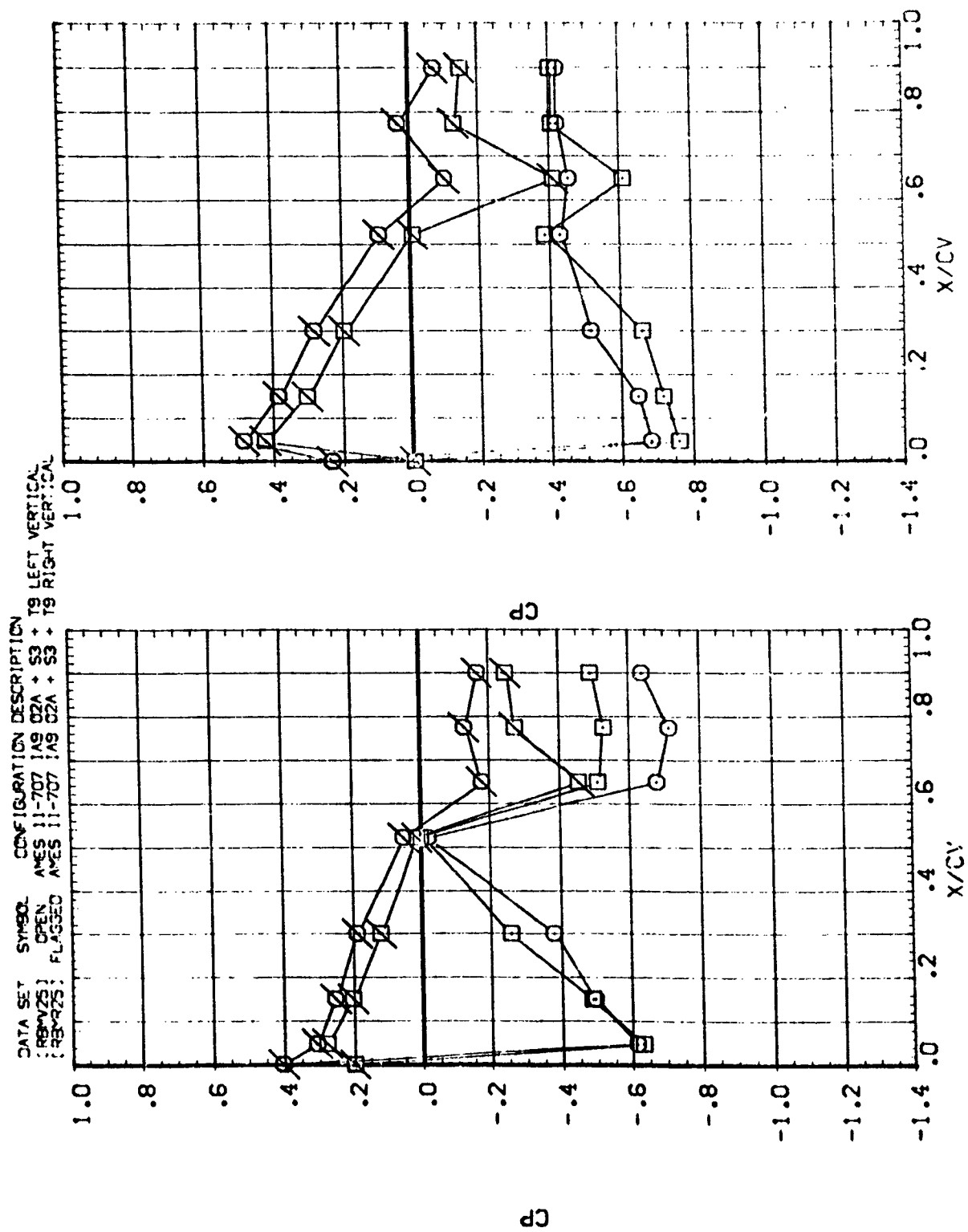


CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES



SYMBOL Z/BN BETAT MACH
.840 4.110 1.246
.925 8.200

PARAMETRIC VALUES
ALPHAT .000 ORBINE .500
RUDDER -10.000 ELEVEN .000
R.D.FLR .000



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

PARAMETRIC VALUES

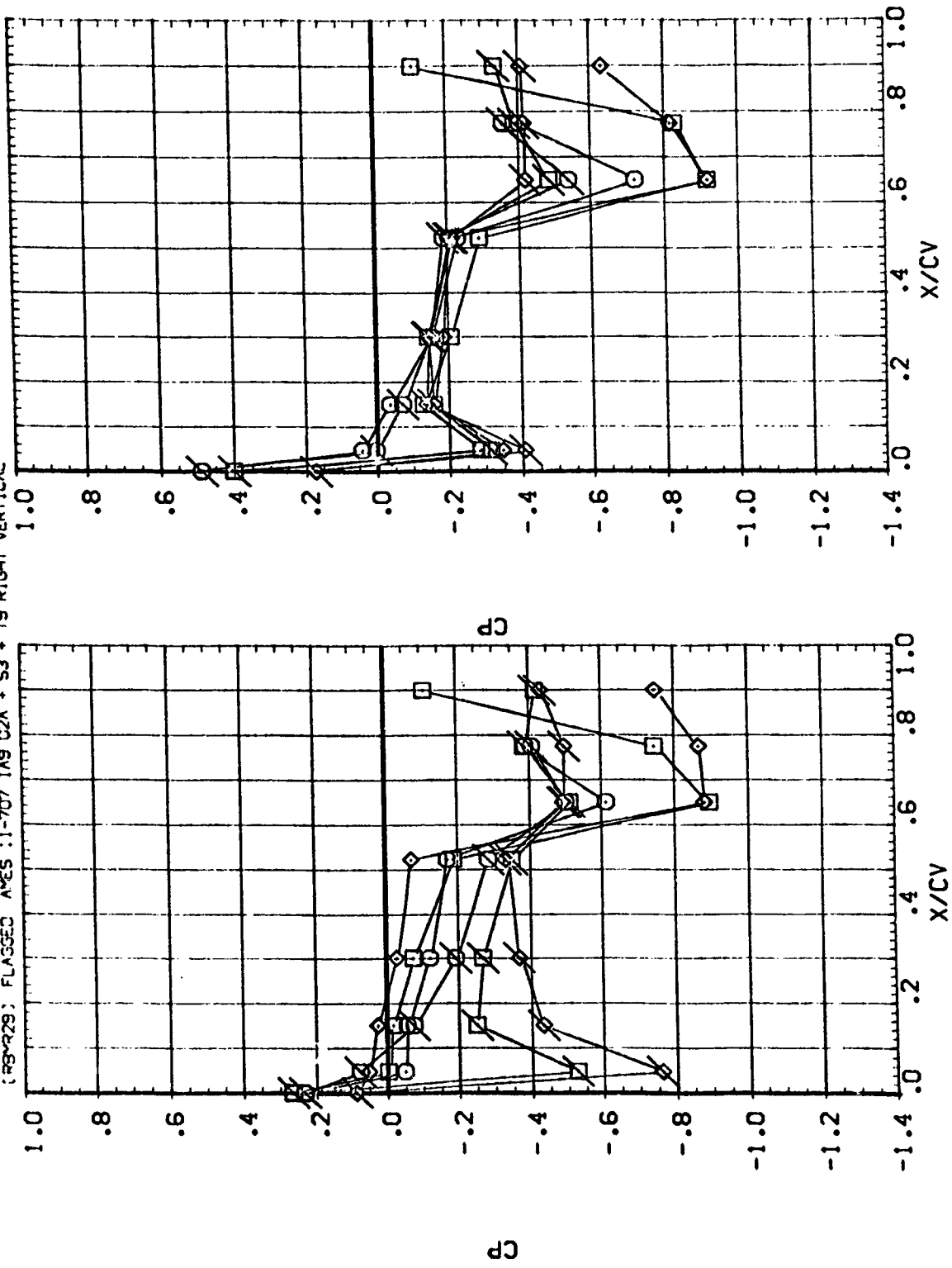
ALPHAT	8.000	ORBINC	.500
RUDER	-10.000	ELEVON	.000
RUDFLR	.000		

SYMBOL

Z/BV	BETAT	MACH
.58	-4.07C	1.098
.316	.020	
.600		

DATA SET SYMBOL CONFIGURATION DESCRIPTION

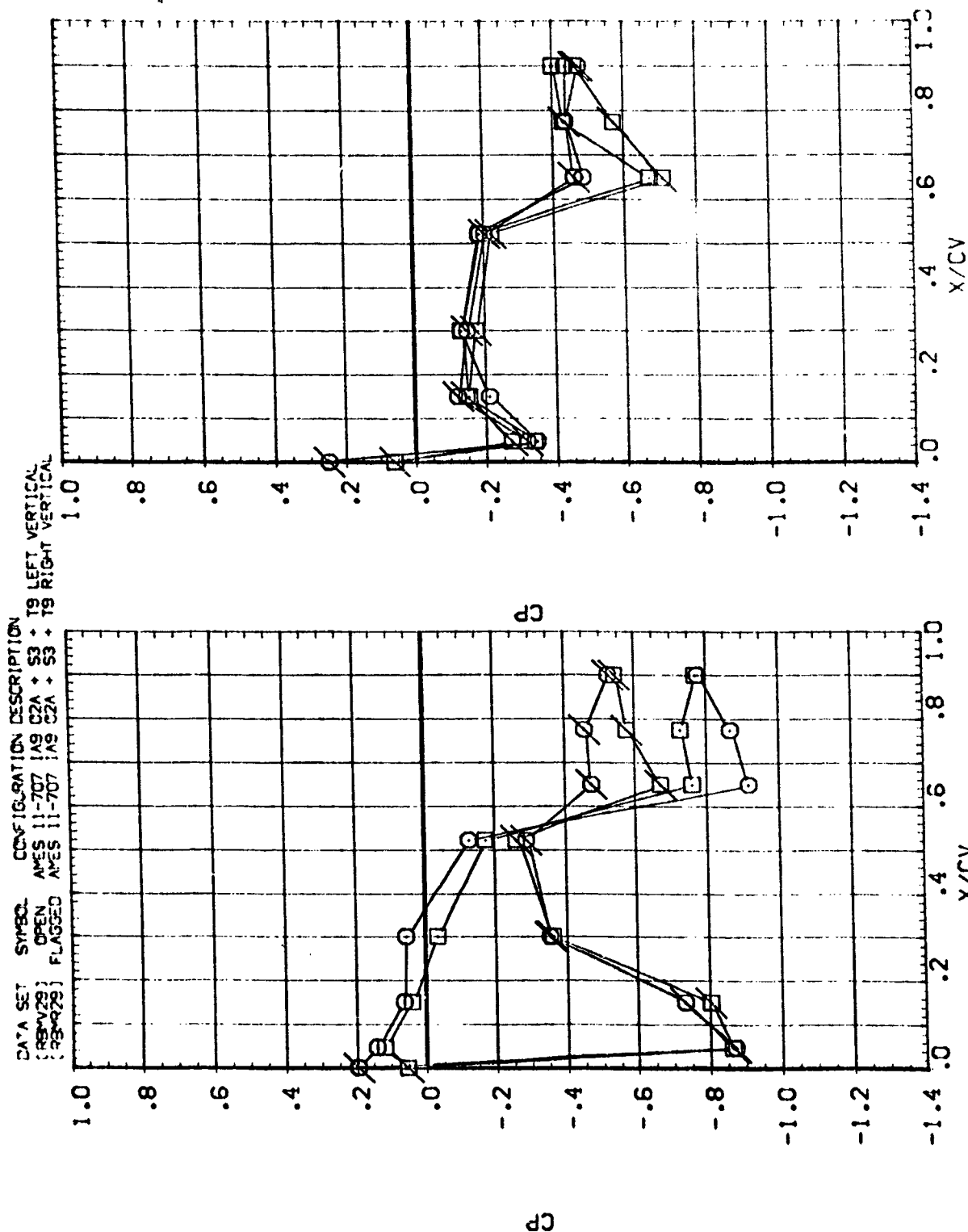
(RBMV29)	CPEN	AVES 11-707 1A9 02A + S3 + T9 LEFT VERTICAL
(RBMV29)	FLAGGED	AVES 11-707 1A9 02A + S3 + T9 RIGHT VERTICAL





SYMBOL Z/BV .84C .925
 BETAT -4.070 .020
 MACH 1.098

PARAMETRIC VALUES
 ALPHAT 8.000 DRBINC .500
 RUDDER -10.000 ELEVON .000
 RUDDLR .000

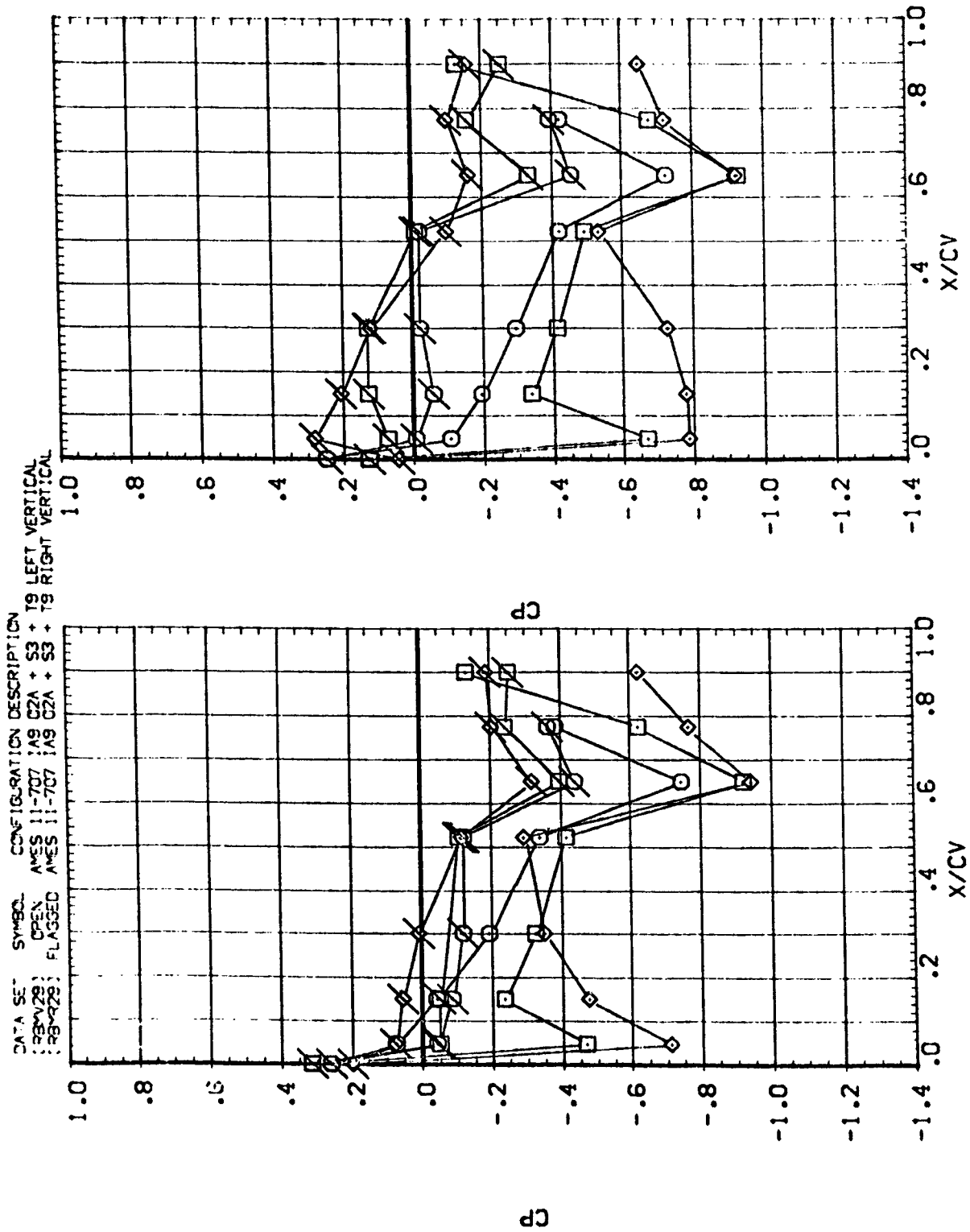


CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES



SYMBOL: Z/BV BETAT MACH PARAMETRIC VALUES

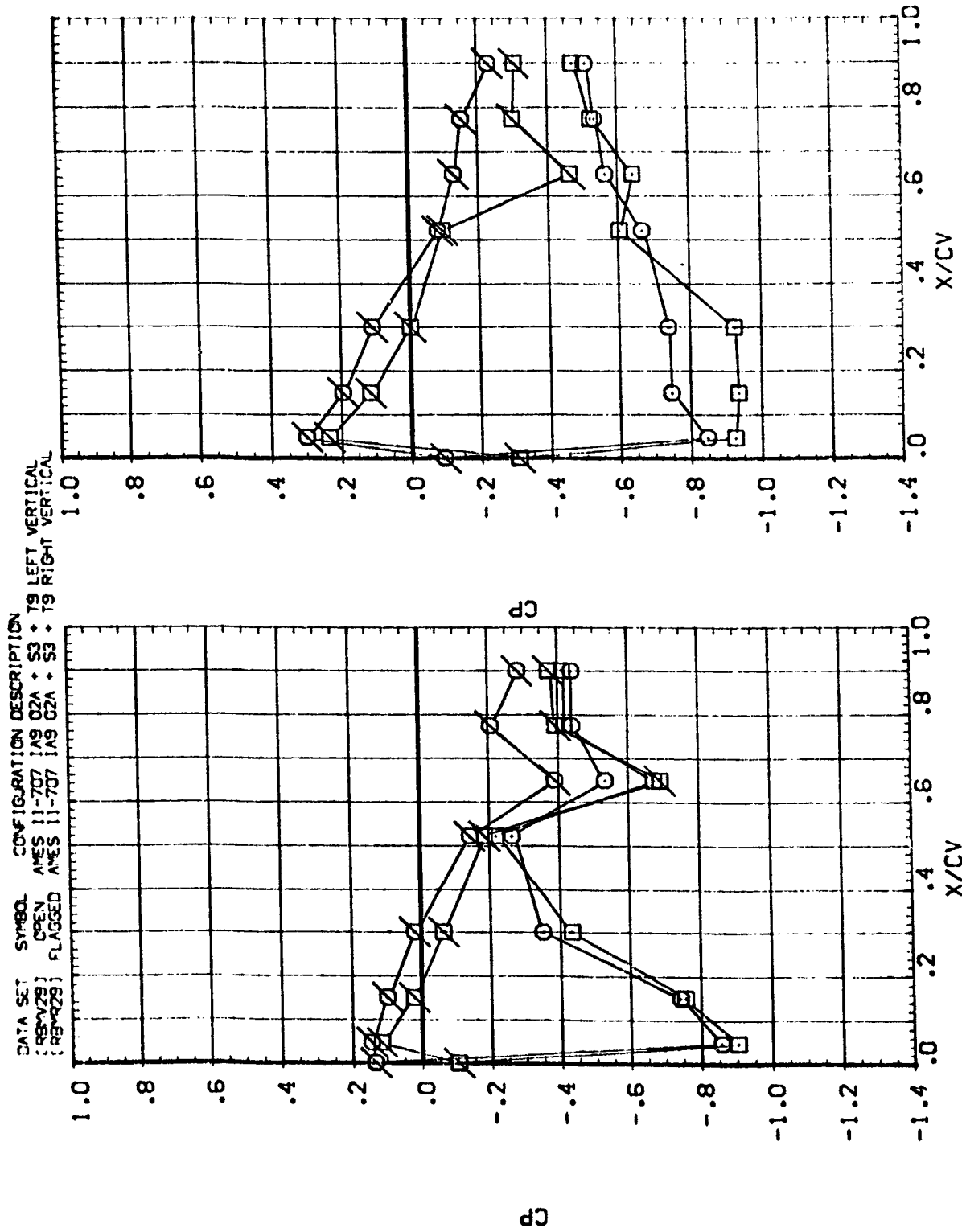
0110	0.58	4.150	1.098	ALPHAT	8.000	DRBINC	.500
0110	.315	8.310		RJODER	-10.000	ELEVON	.000
0110	.600			RJOFER	.000		





SYMBOL Z/BV BETAT MACH
 O .84C 4.150 1.098
 □ .925 8.310

PARAMETRIC VALUES
 ALPHAT 8.000 ORBINC .500
 RUDDER -10.000 ELEVON .000
 RUOFLR .000



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES



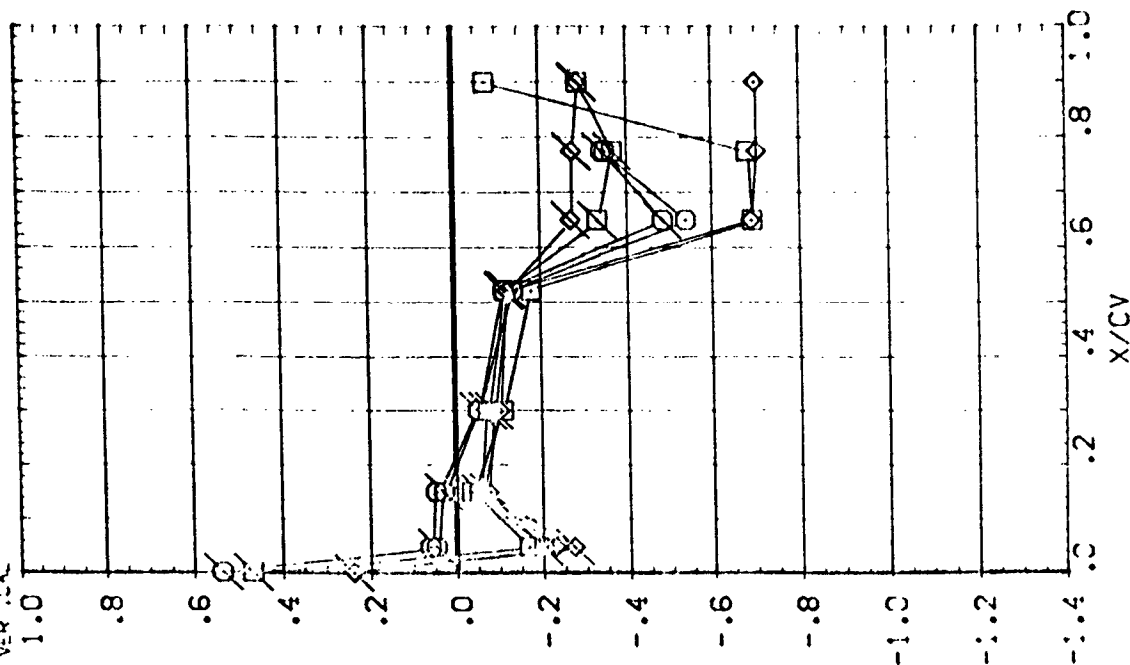
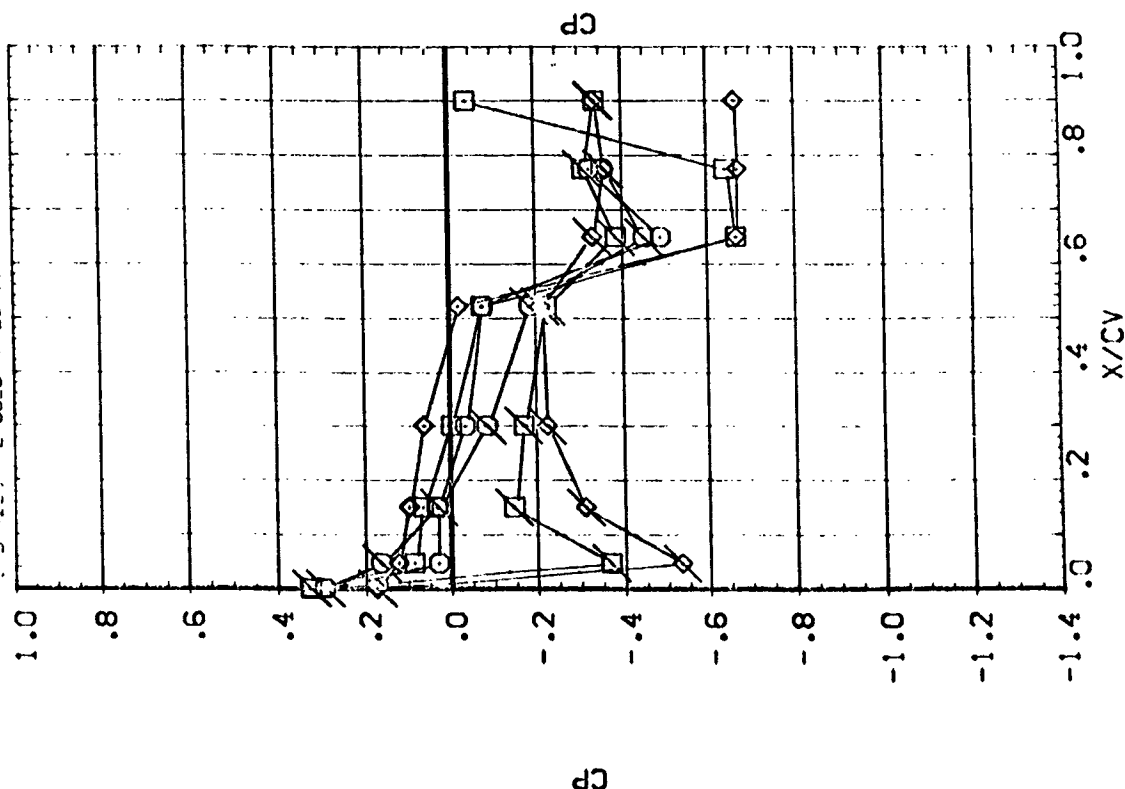
SV90 2/8
1.55
1.316
1.600

REYN
-4.040
1.000

MACH
1.047

PARAMETRIC VALUES
ALPHA 8.000 CRBINC .500
RUDDER -10.000 ELEVON .000
RUDDER .000

DATA SET SV902 CONFIGURATION DESCRIPTION
(P8M100) ANES 11-707 1A8 02A + S3 - 19 LEFT VERTICAL
(P8M100) ANES 11-707 1A8 02A + S3 - 19 RIGHT VERTICAL

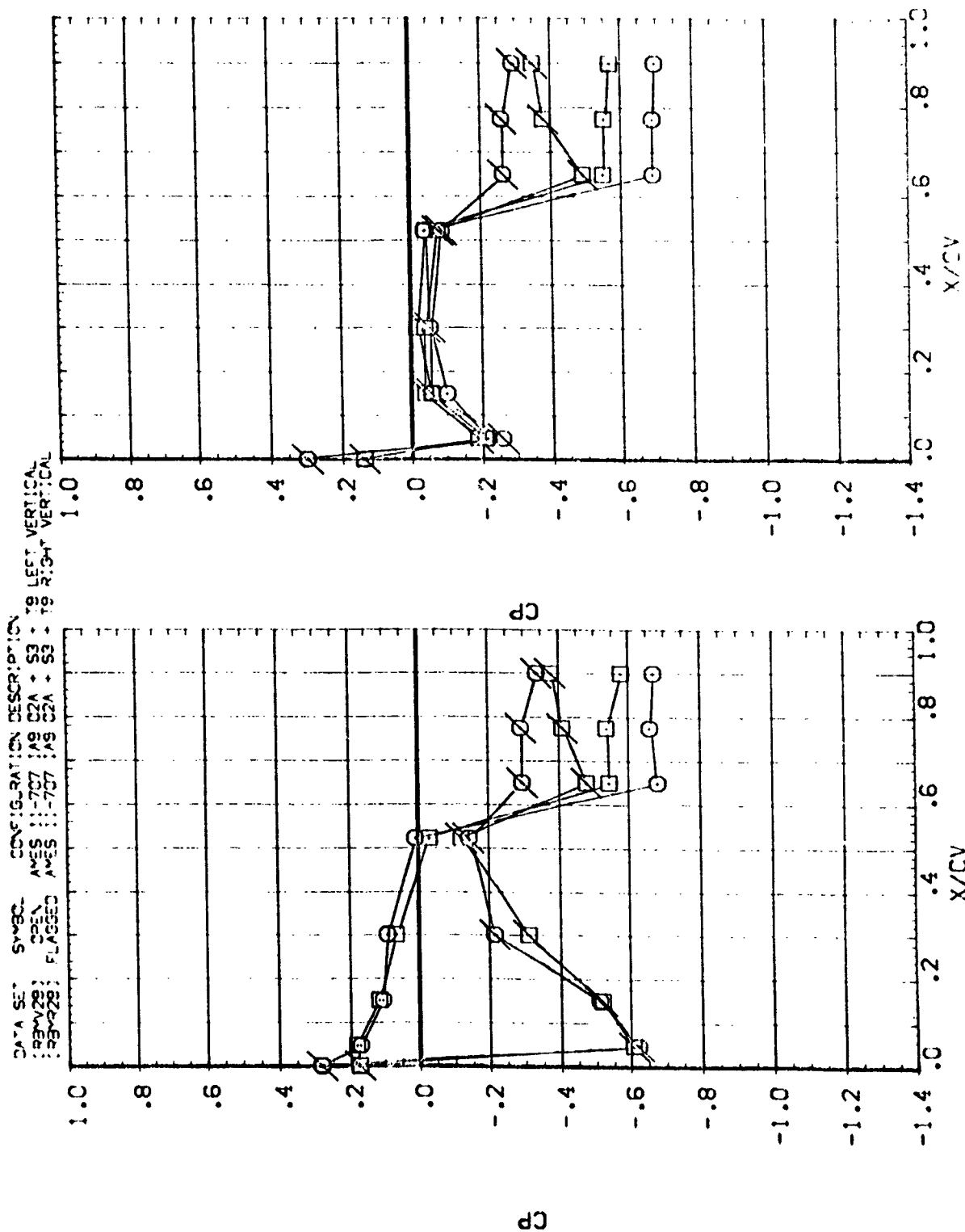


CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES



SYNCH Z/BV .840 .925
 BETA* -4.040 .020
 MAC 1.247

PARAMETRIC VALUES
 ALPHA 8.000 0.000 .500
 RUDDER -10.000 ELEVEN .000
 RUDDER .000

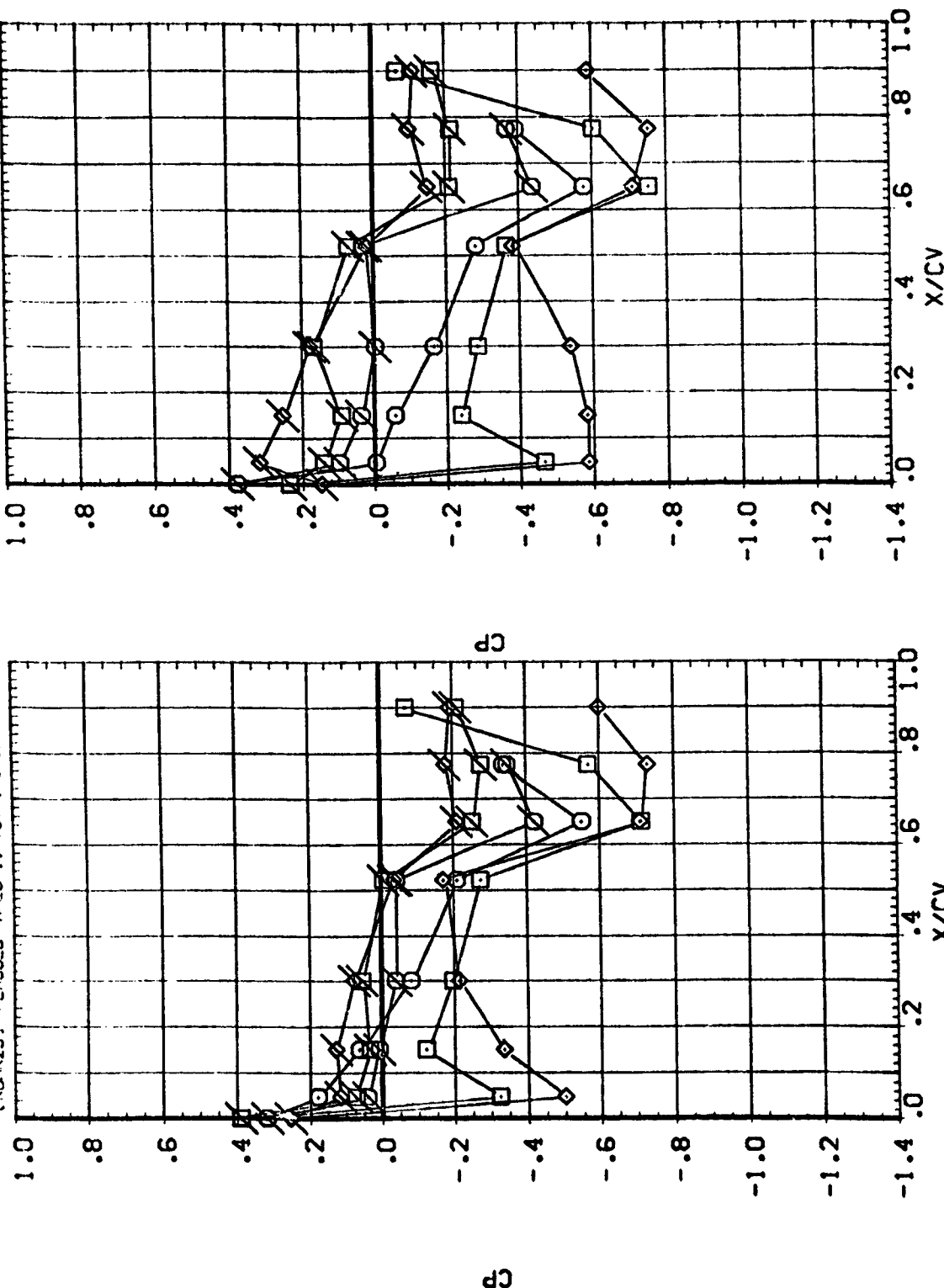


CLOCKWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

PARAMETRIC VALUES
 ALPHA* 8.000 ORBINC .500
 RUDER -10.000 ELEVON .000
 RUFLR .000

SYMBOL Z/BV # TAT MACH
 .58 4.130 1.247
 .316 8.750
 .300

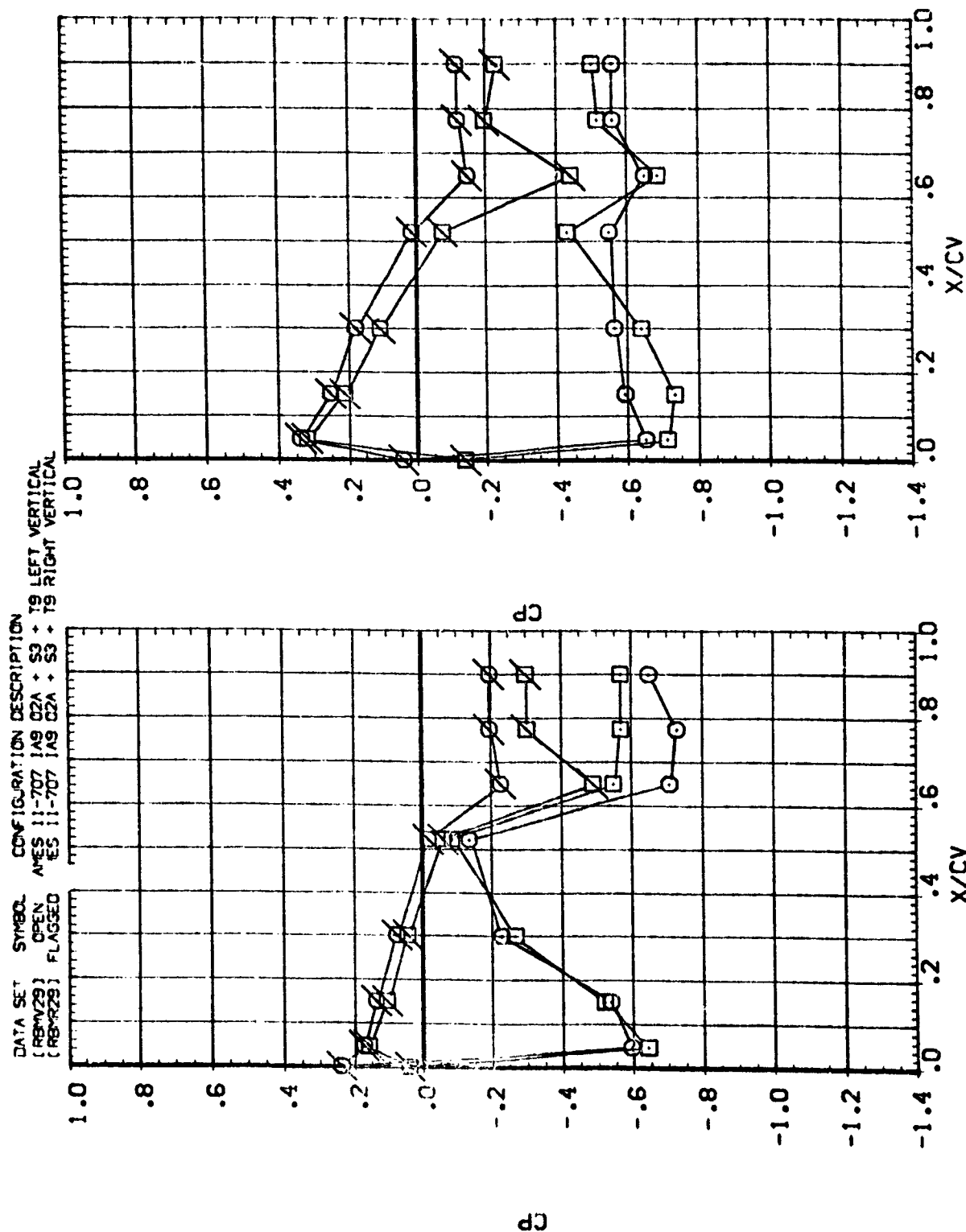
DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RBMVZ9) OPEN AYES 11-707 :A9 C2A + S3 + T9 LEFT VERTICAL
 (RBMVZ9) FLAGGED AYES 11-707 :A9 C2A + S3 + T9 RIGHT VERTICAL



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

SYMBOL Z/B₁ BETAT MACH
 .84C 4.13C 1.247
 .925 8.250

PARAMETRIC VALUES
 ALPHAT 8.000 DRBINC .500
 RUDDER -10.000 ELEVON .000
 RUDDFLR .000



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

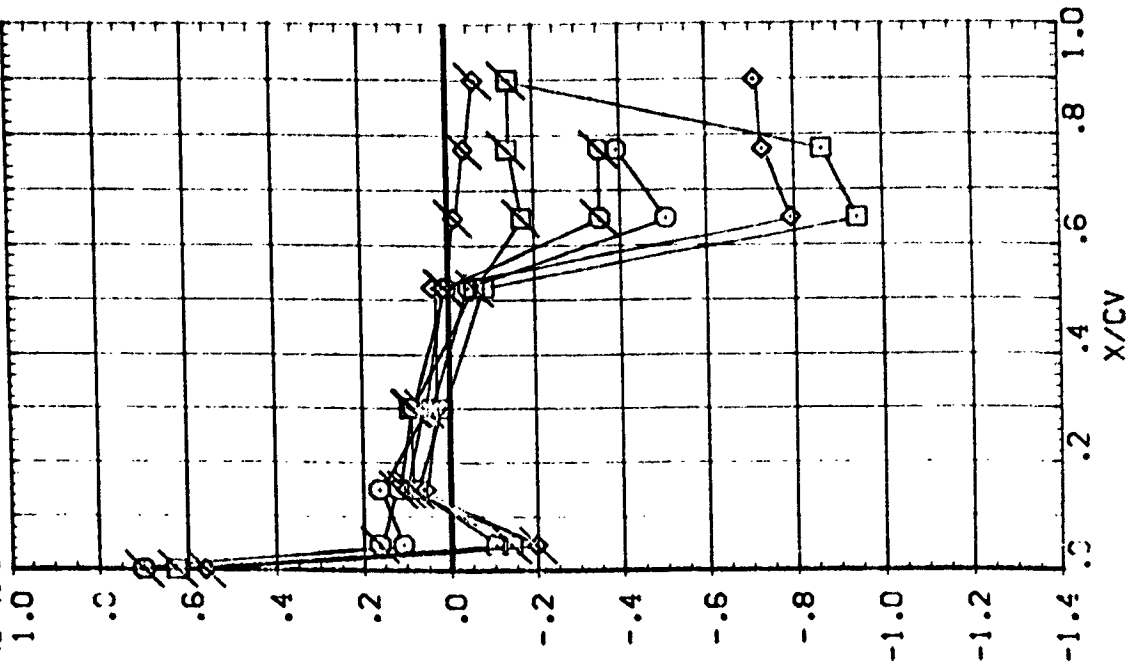
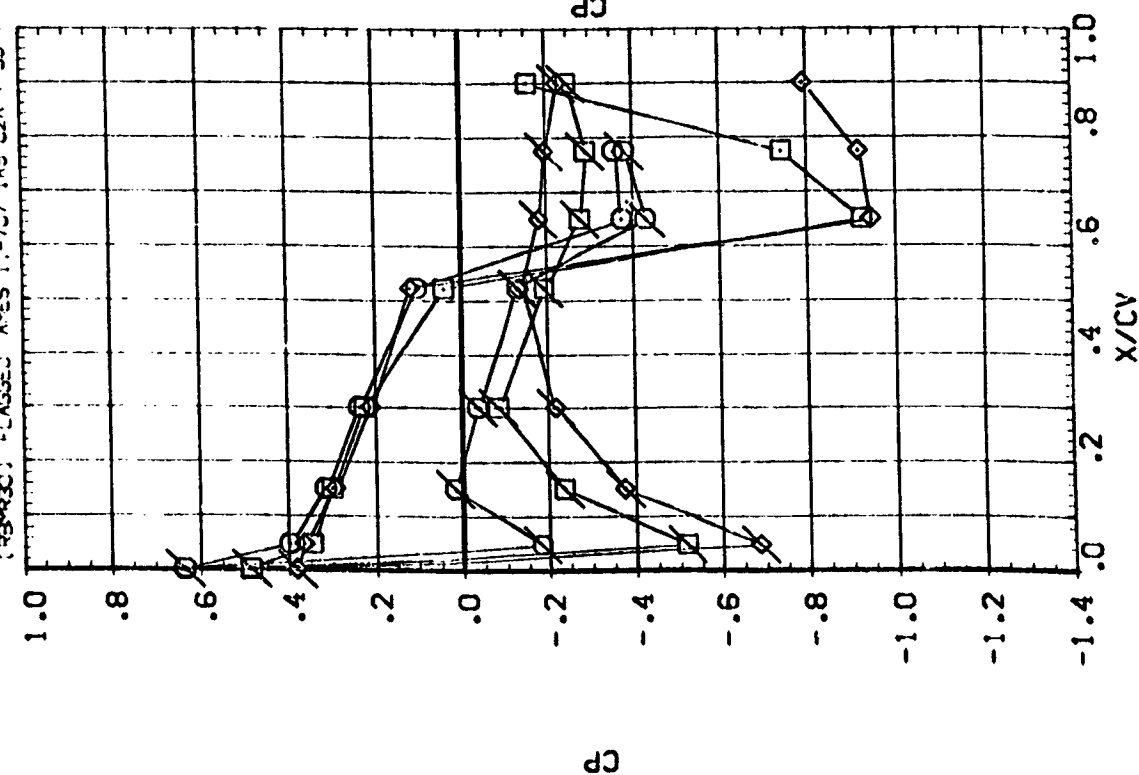


SYMBOL Z/BV
 .158
 .316
 .600

BETAT MACH
 -4.080 1.101
 .020

PARAMETRIC VALUES
 ALPHAT -8.000 ORBINC .500
 RJOER -15.000 ELEVON .000
 RJOELR .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RBMVBC) OPEN ANES 11-707 1A9 C2A + S3 + T9 LEFT VERTICAL
 (RBMVBC) FLAGGED ANES 11-707 1A9 C2A + S3 + T9 RIGHT VERTICAL

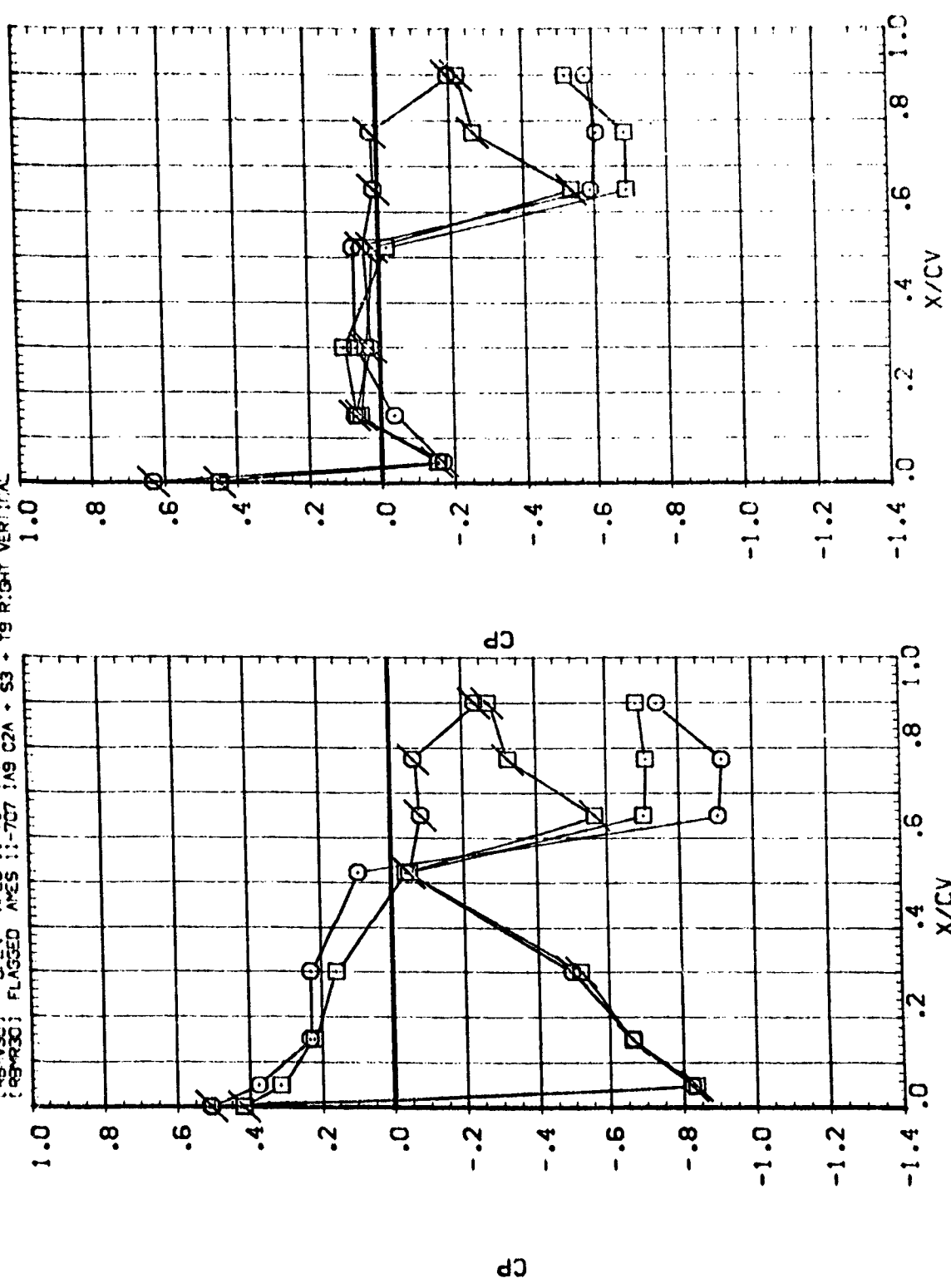




SYMBOL Z/BV BETAT MACH
 0.84C 1.10
 0.925 0.020

PARAMETRIC VALUES
 ALPHAT -8.000 DRBINC .500
 RUDDER -15.000 ELEVON .000
 RUFLR .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 [RB-V30] OPEN AMES 11-707 [A9 C2A + S3 + T9 LEFT VERTICAL
 [RB-R30] FLAGGED AMES 11-707 [A9 C2A + S3 + T9 RIGHT VERTICAL



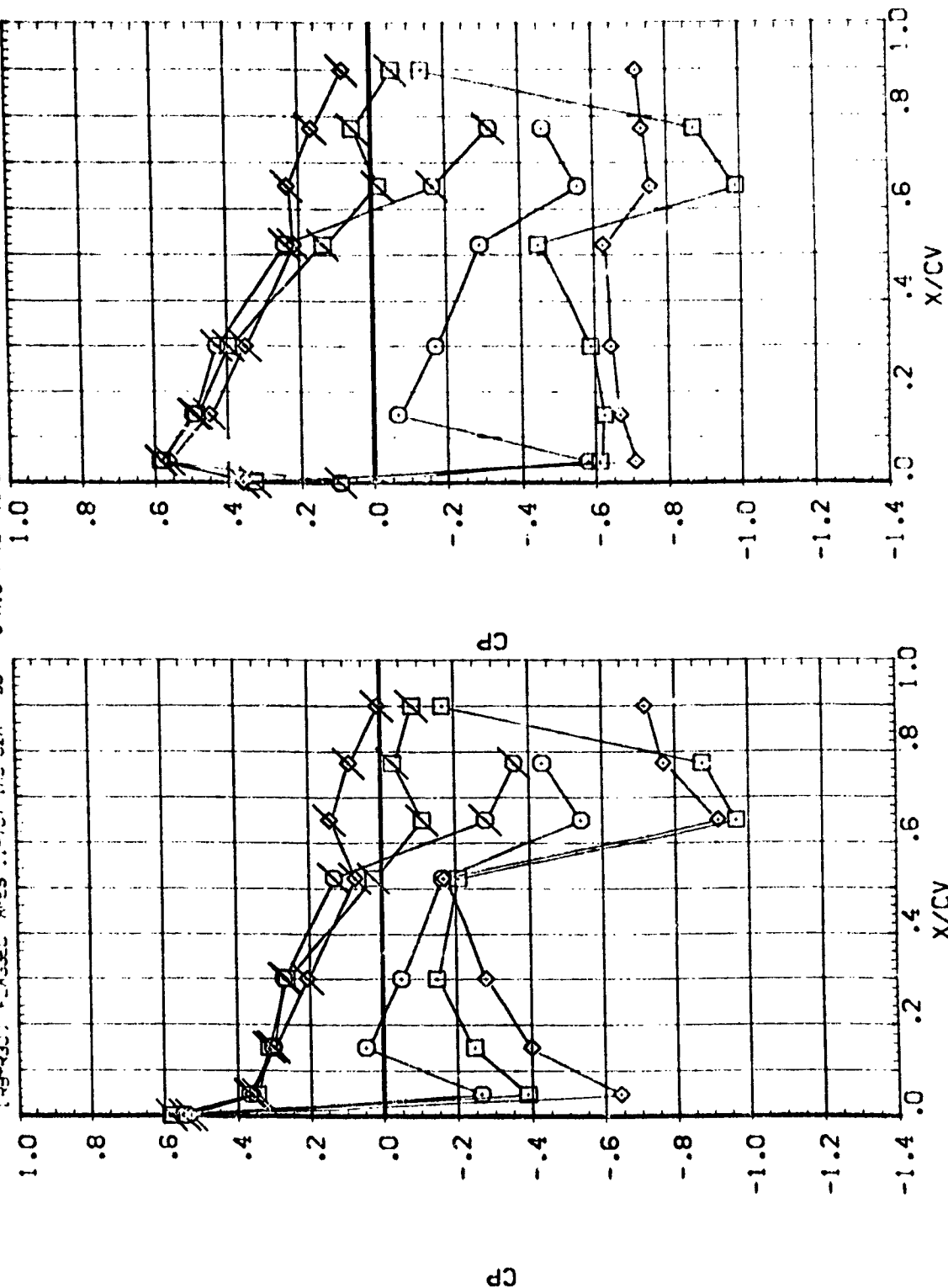


SYNCH- Z/3V BETAT MACH
 .158 4.16C 1.0C
 .316 8.31C
 .500

PARAMETRIC VALUES
 ALPHAT -8.000 C98INC .500
 RJOER -15.000 ELEVEN .000
 RJOELR .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION

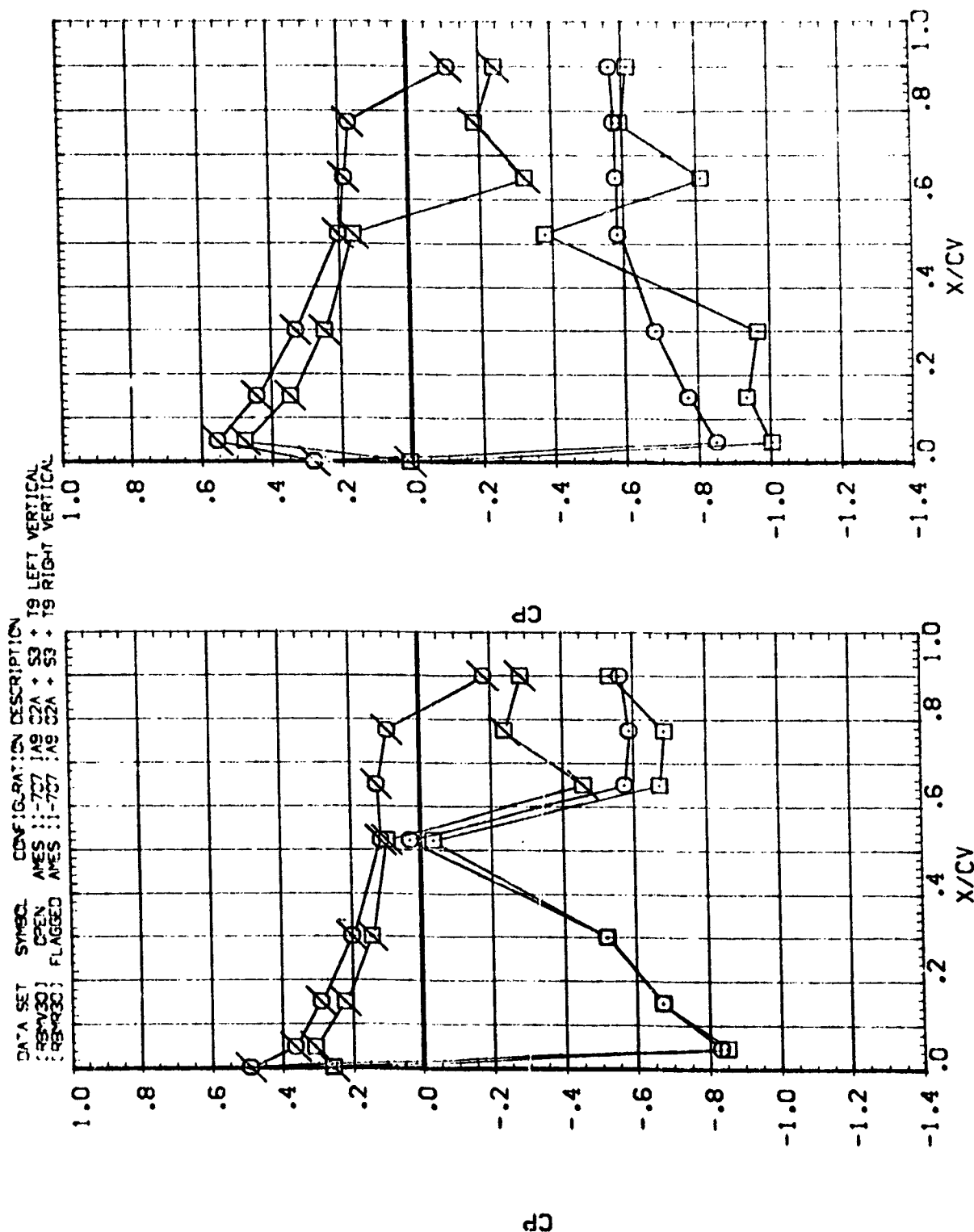
(R9-130) AMES 11-707 :A9 C2A + S3 + T9 LEFT VERTICAL
 (R9-130) AMES 11-707 :A9 C2A + S3 + T9 RIGHT VERTICAL





SYNCH. 2/BV .840 .925
 BETAT 4.160 8.310
 MACH 1.101

PARAMETRIC VALUES
 ALPHAT -8.000
 RUDDER -15.000
 RUOFLR .000
 CRBINC .500
 ELEVON .000



PARAMETRIC VALUES

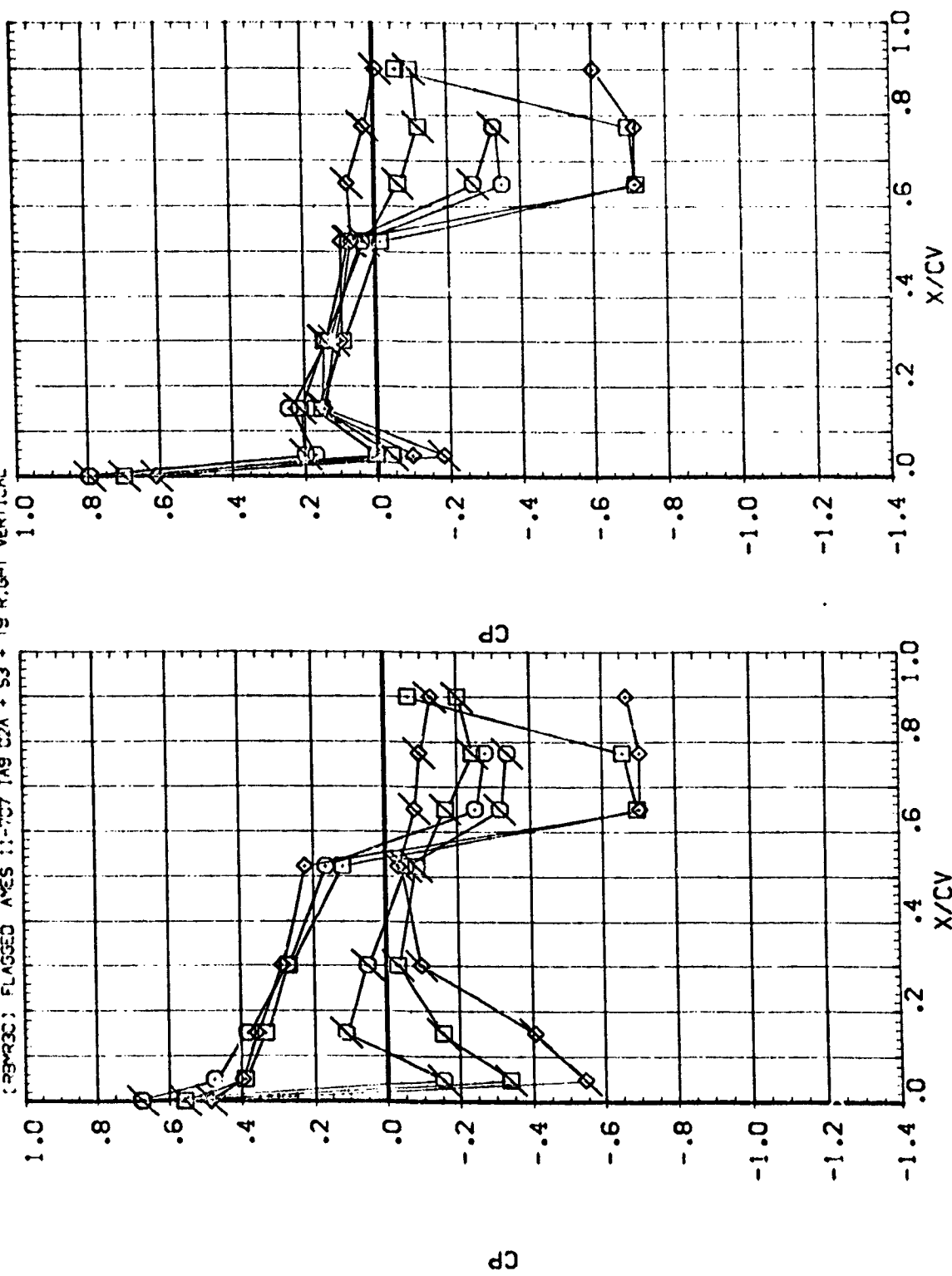
ALPHAT	-8.000	ORBNIC	.500
RJDDER	-15.000	ELEVON	.000
RJDFLR	.000		

SYNCS- Z/BV BETA* MACH

.158	-4.050	1.244
.316	.020	
.600		

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(BPMV30)	OPEN	ANES 11-707 1A9 C2A + S3 + T9 LEFT VERTICAL
(BPMV30)	FLAGGED	ANES 11-707 1A9 C2A + S3 + T9 RIGHT VERTICAL

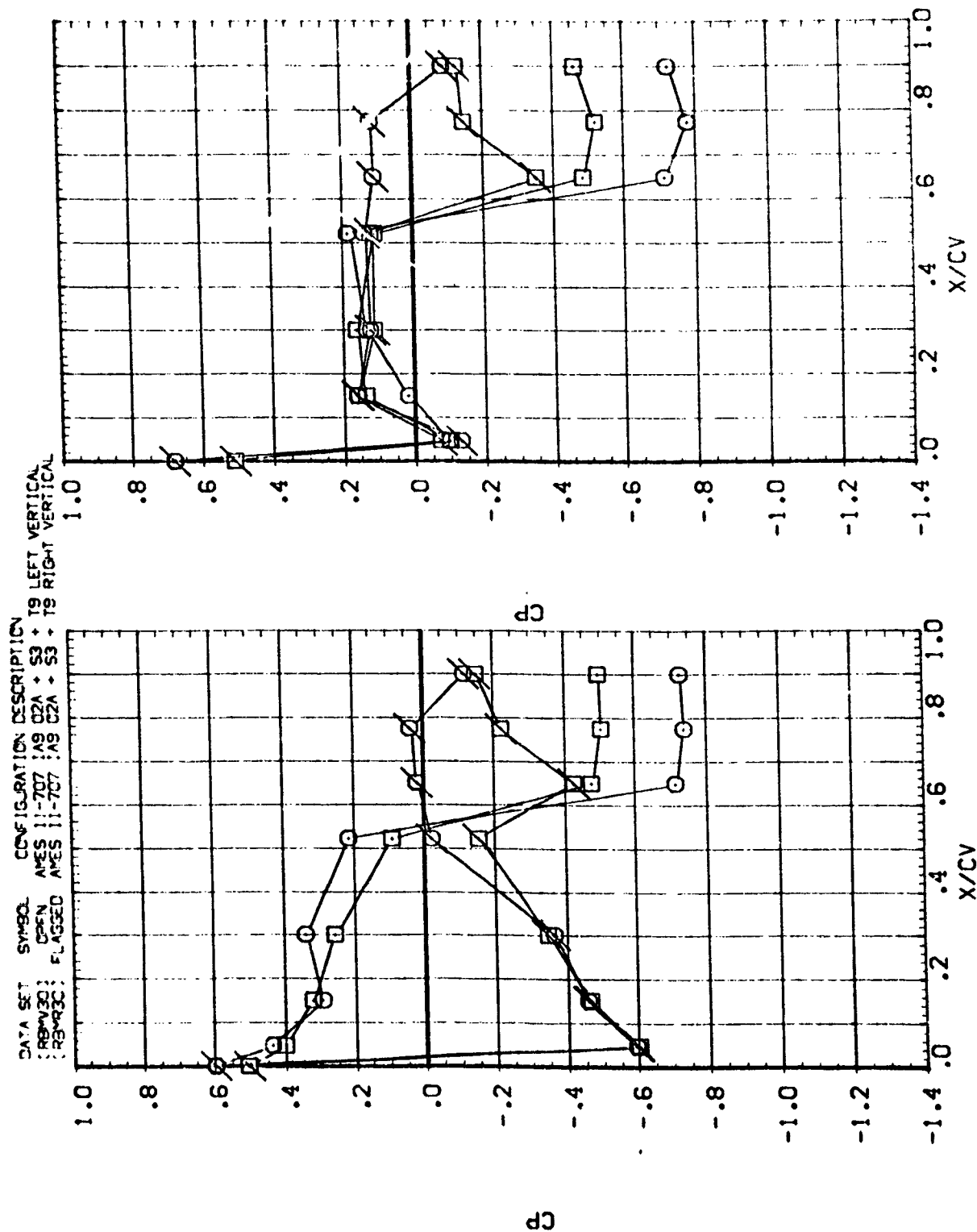


CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES



SYMBOL Z/BV BETAT MACH
.840 .925 -4.050 1.244

PARAMETRIC VALUES
ALPHAT -8.000 CRB:NC .500
RUDDER -15.000 ELEVON .000
RUDFLR .000

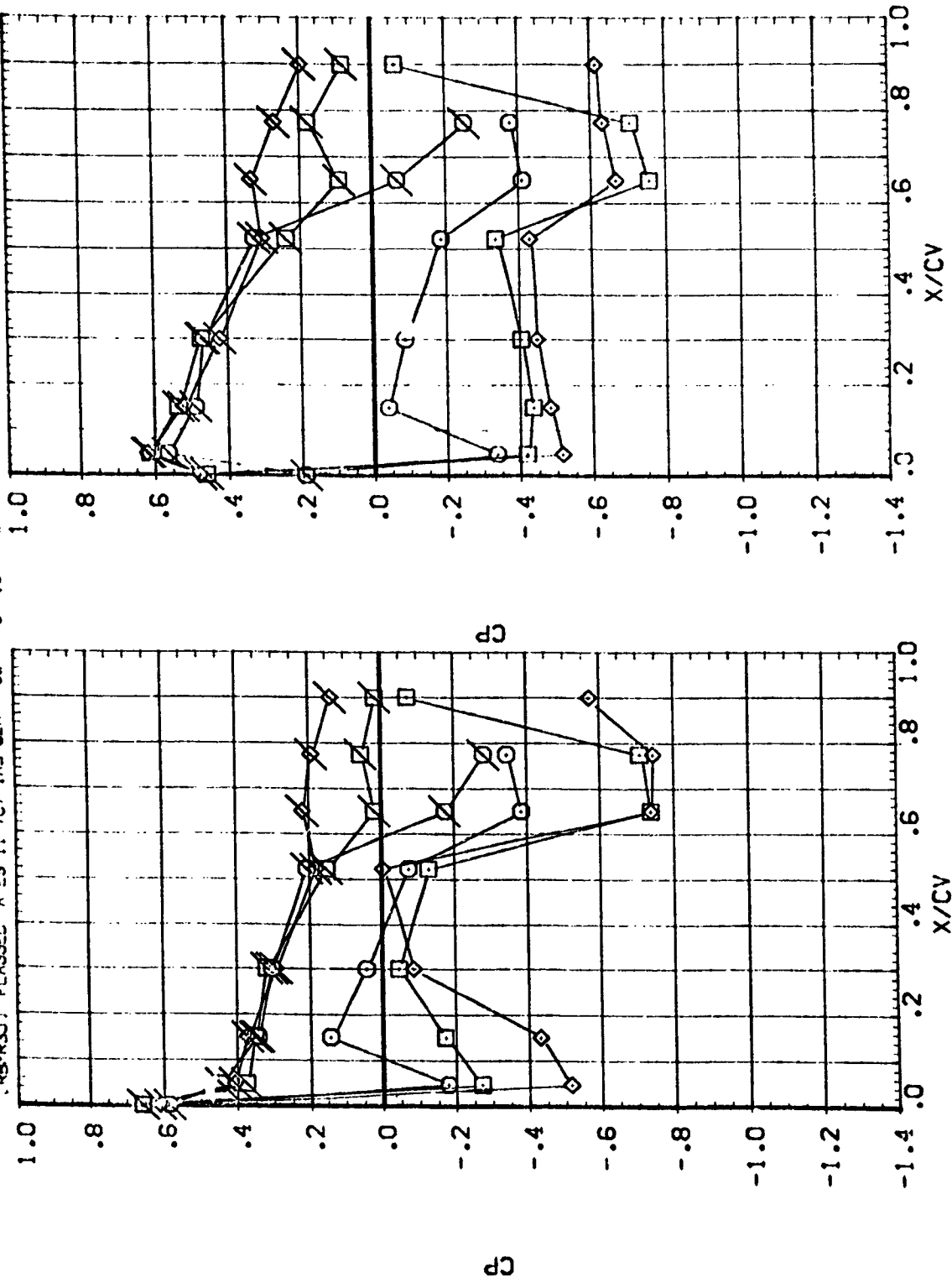


CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES



SYMBO: Z/BV BETAT MACH
 .158 4.130 1.244
 .316 8.750
 .600

DATA SET SYMBO CONFIGURATION DESCRIPTION
 : RMV30 : OPEN AVES 11-707 1A9 C2A + S3 + 19 LEFT VERTICAL
 : RMV30 : FLAGGED AVES 11-707 1A9 C2A + S3 + 19 RIGHT VERTICAL

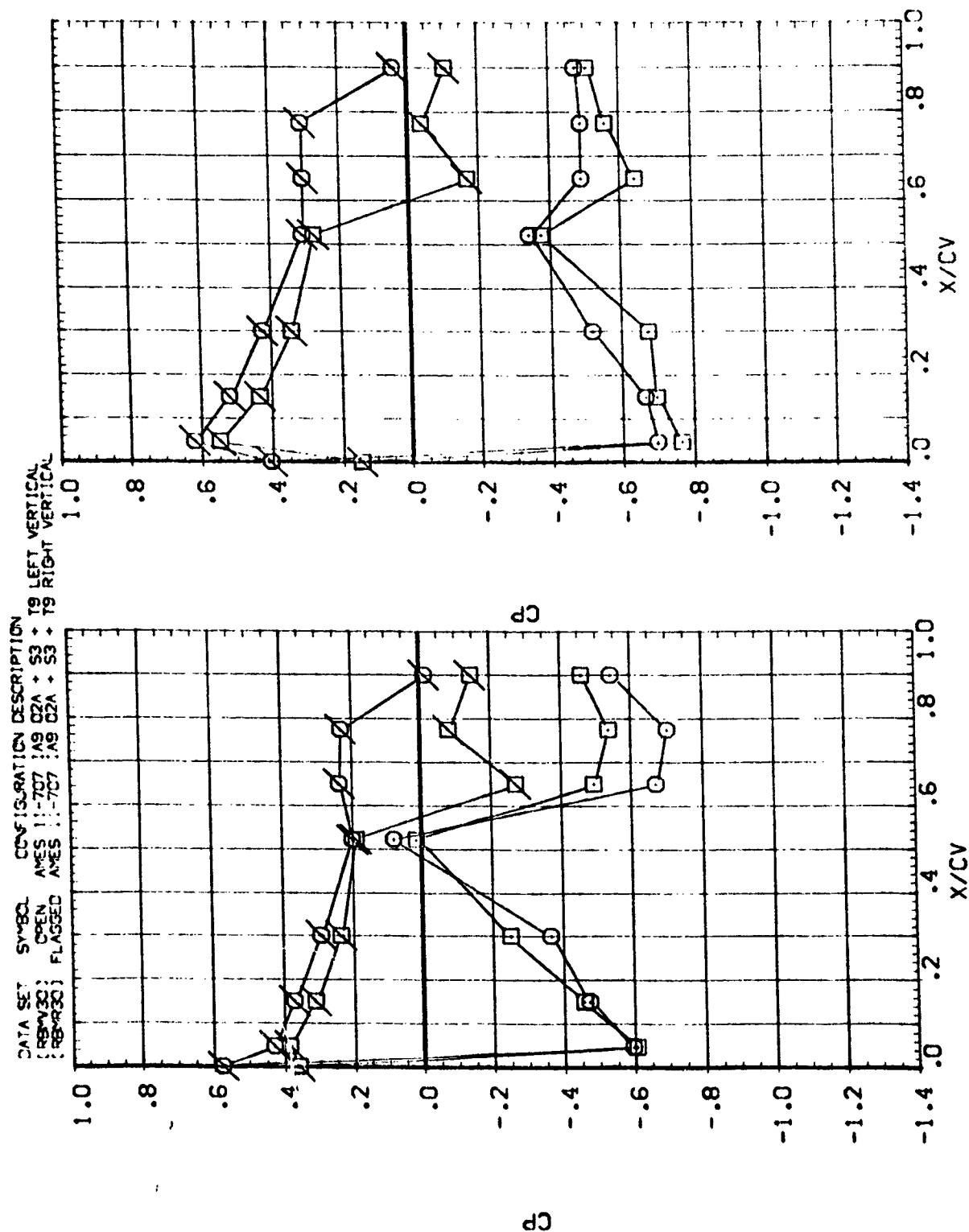


CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES



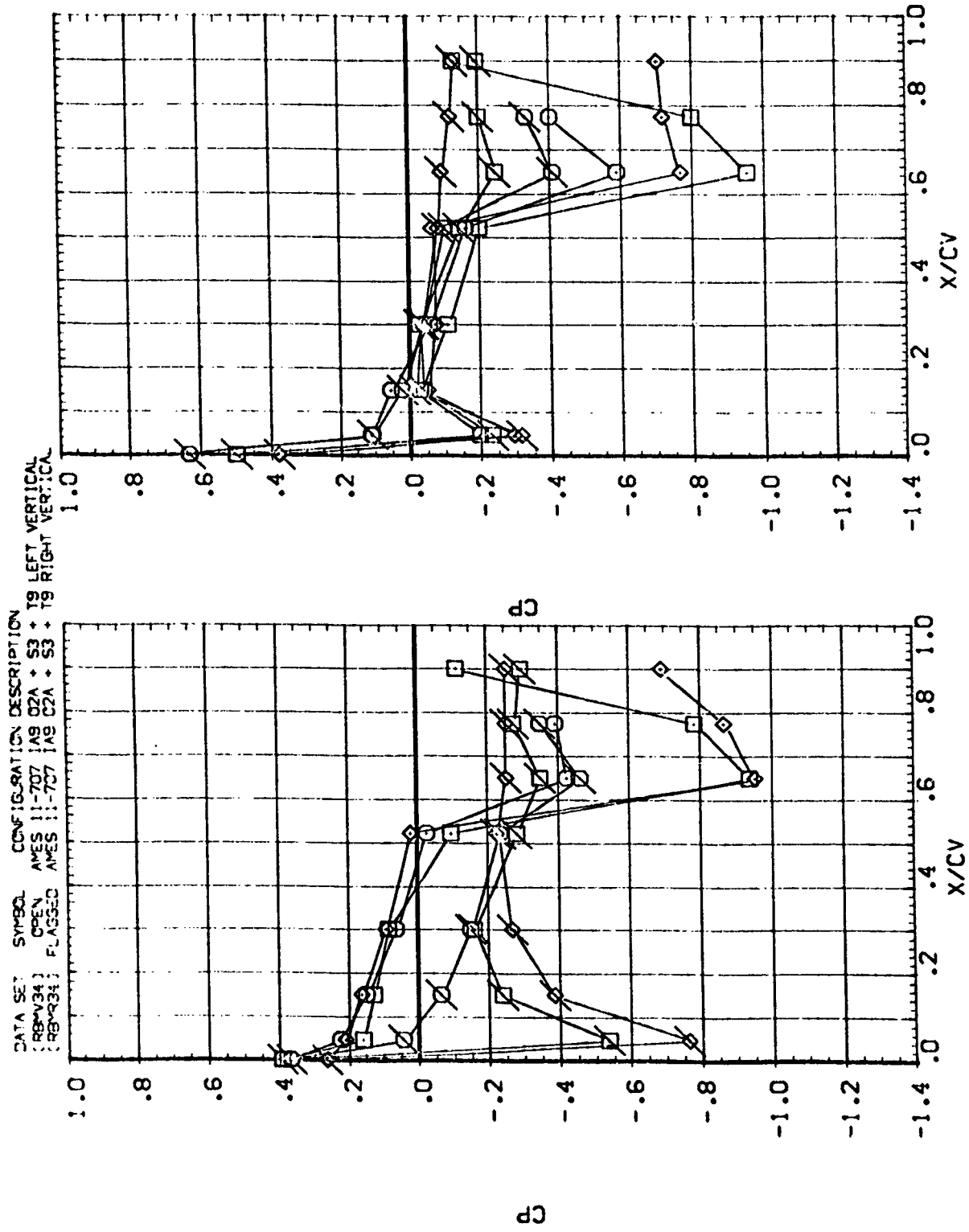
SYMBOL Z/BV BETAT MACH
O 1 .84C 4.13C 1.244
O 1 .925 8.25C

PARAMETRIC VALUES
ALPHA-T -8.000 ORBINC .500
RUDDER -15.000 ELEVON .000
RUJFLR .000





SYNOPSIS: Z/B: .158 .316 .600
BETA: -4.090 .070
MACH: 1.097
PARAMETRIC VALUES: .000 .500
ALPHA: .000 .000
RUDDER: -15.000 .000
RUOFLR: .000 .000

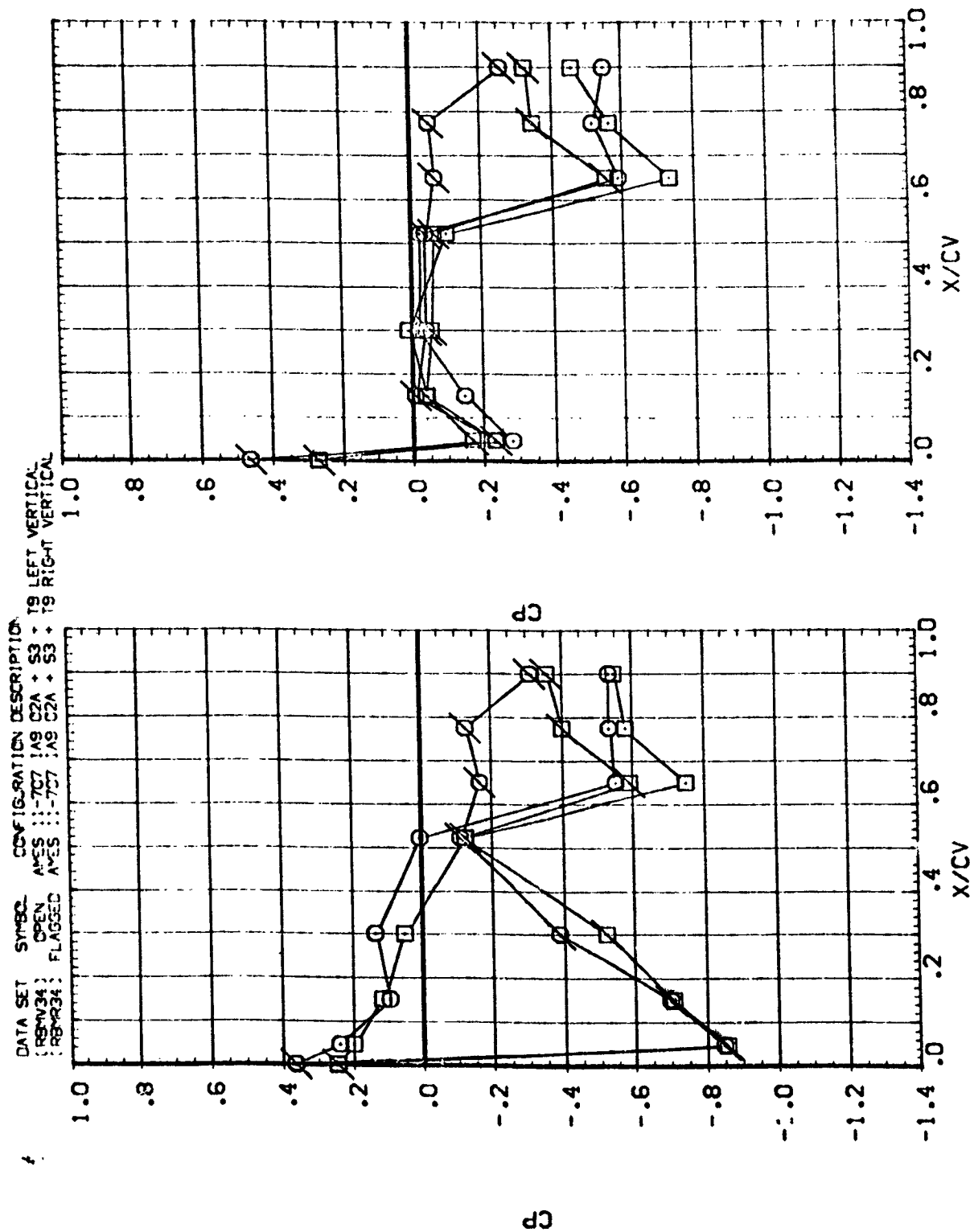


CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES



SYMBOL Z/BV BETAT MACH
 .840 -4.090 1.097
 .925 .020

PARAMETRIC VALUES
 ALPHAT .000 CRBINC .500
 RUDDER -15.000 ELEVON .000
 RUDDER .000



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

PARAMETRIC VALUES

ALPHAT	.000	ORBITAL	.500
RUDDER	-15.000	ELEVON	.000
RUDDLR	.000		

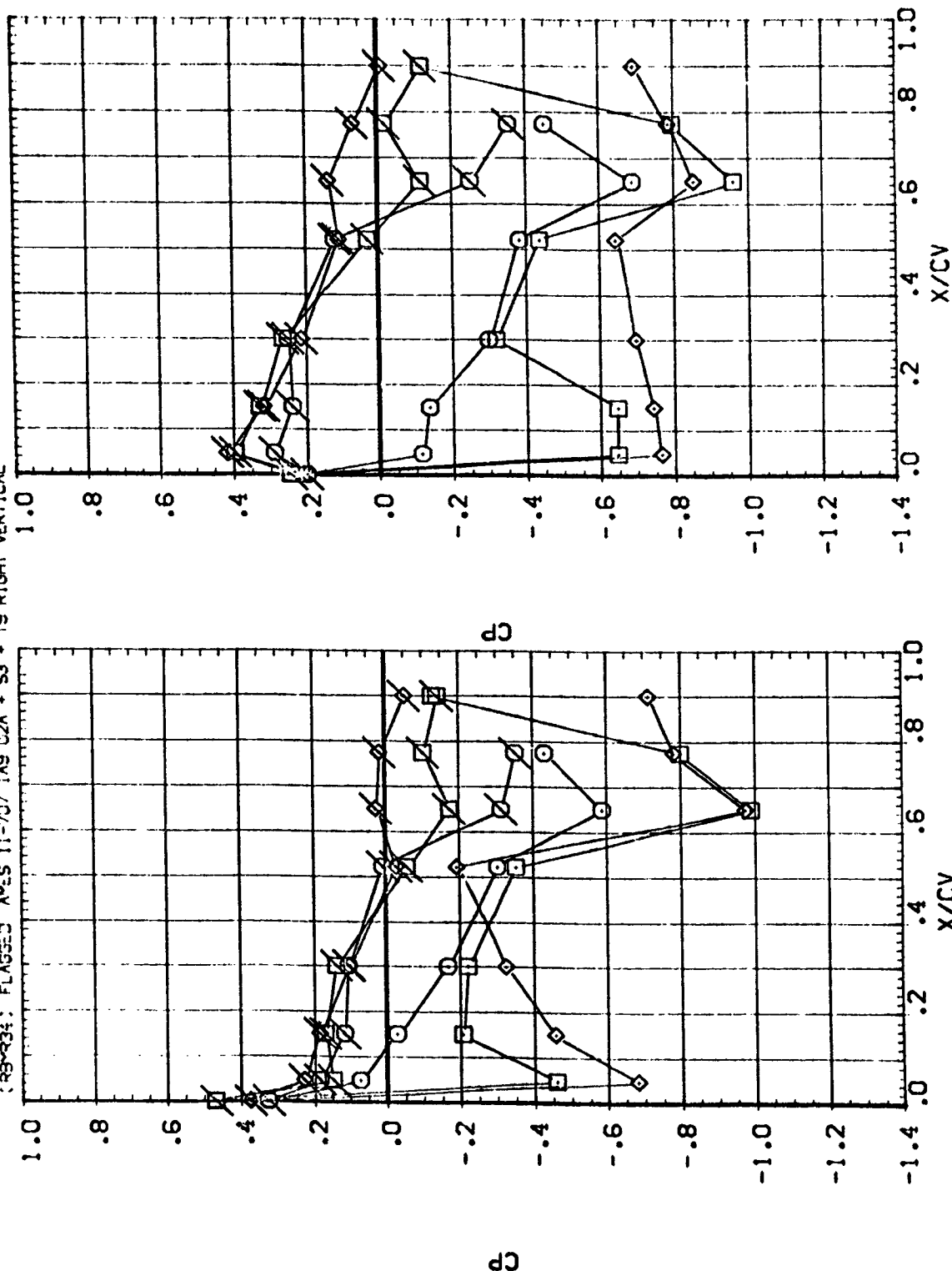
SYMBOL Z/BN BETA² MACH

○	.158	4.130	1.097
□	.316	8.250	
◇	.600		

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RBMV34) OPEN AVES 11-707 1A9 02A + S3 + T9 LEFT VERTICAL

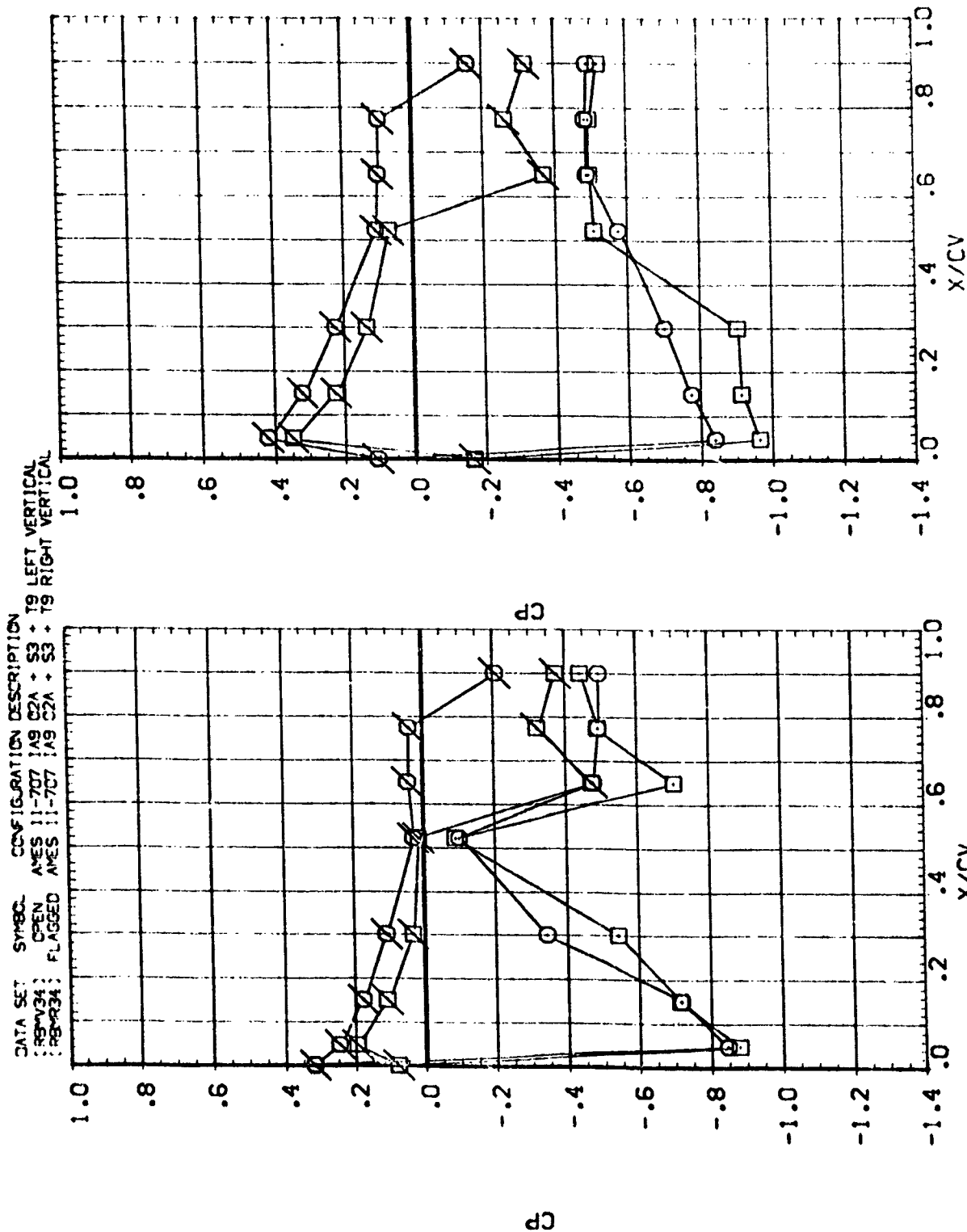
(RBMV34) FLAGGED AVES 11-707 1A9 02A + S3 + T9 RIGHT VERTICAL





SYMBOL Z/BV BETA² MACH
O .840 4.130 1.097
□ .925 8.250

PARAMETRIC VALUES
ALPHA² .000 CRBINC .500
RUDDER -15.000 ELEVON .000
R.OFLR .000



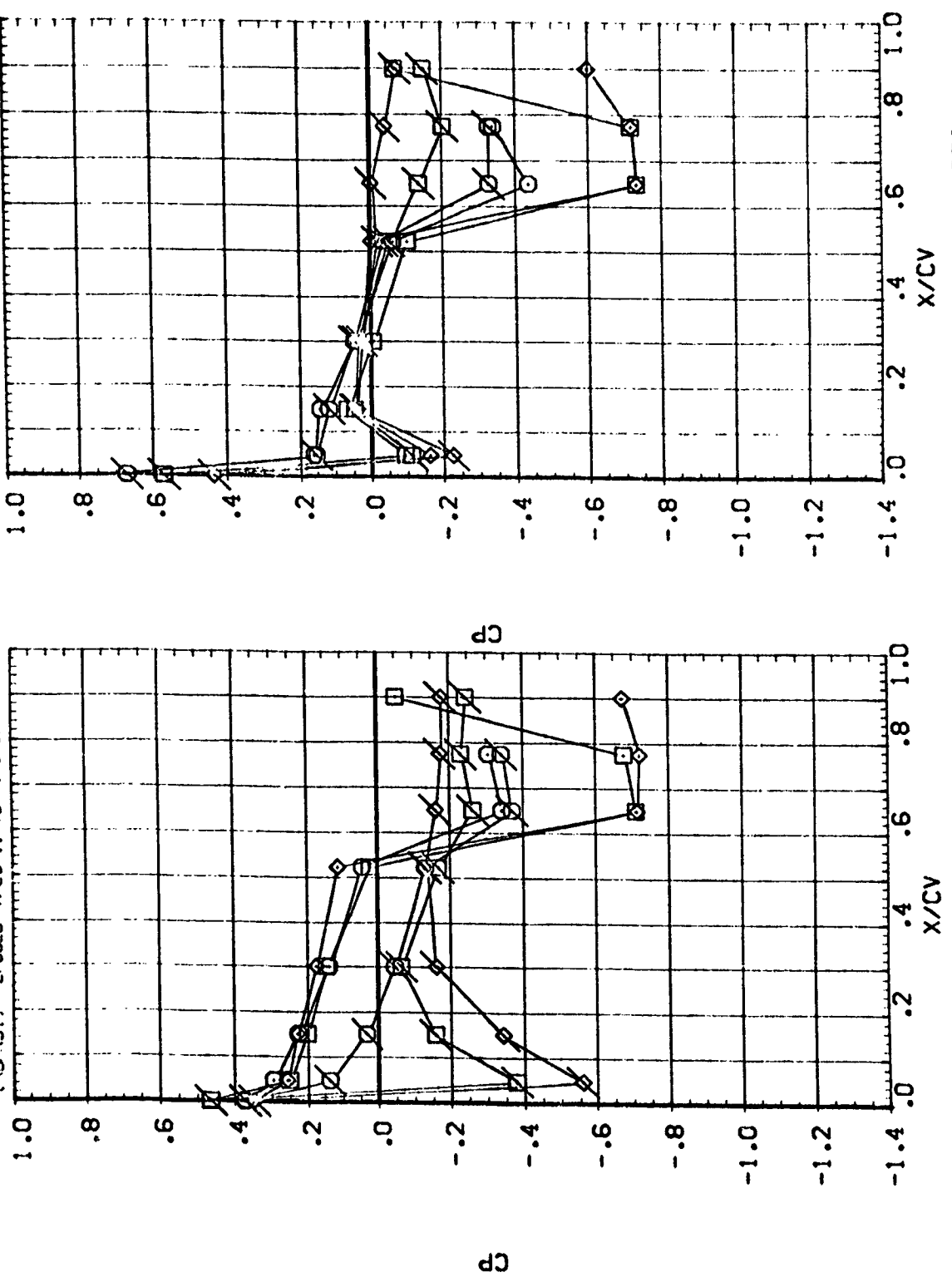
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES



SY-SC Z/BV .58 .316 .600
 RETAT -4.070 .220
 MACH 1.249

PARAMETRIC VALUES
 ALPHAAT .000
 RUDDER -15.000
 RUDDER ELEVON .000
 .500
 .000

DATA SET SYMBO CONFIGURATION DESCRIPTION
 (RBV34) OPEN AMES 11-707 1A9 02A + S3 + T9 LEFT VERTICAL
 (RBV34) FLAGGED AMES 11-707 1A9 02A + S3 + T9 RIGHT VERTICAL





SYMBOL
 ○
 □

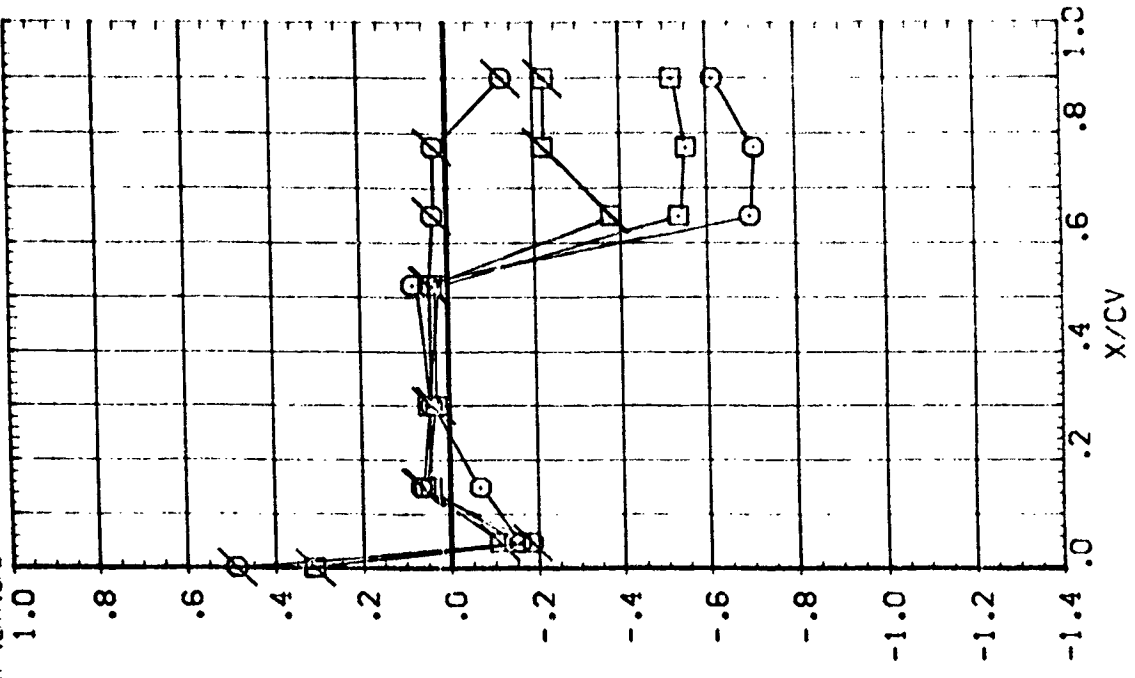
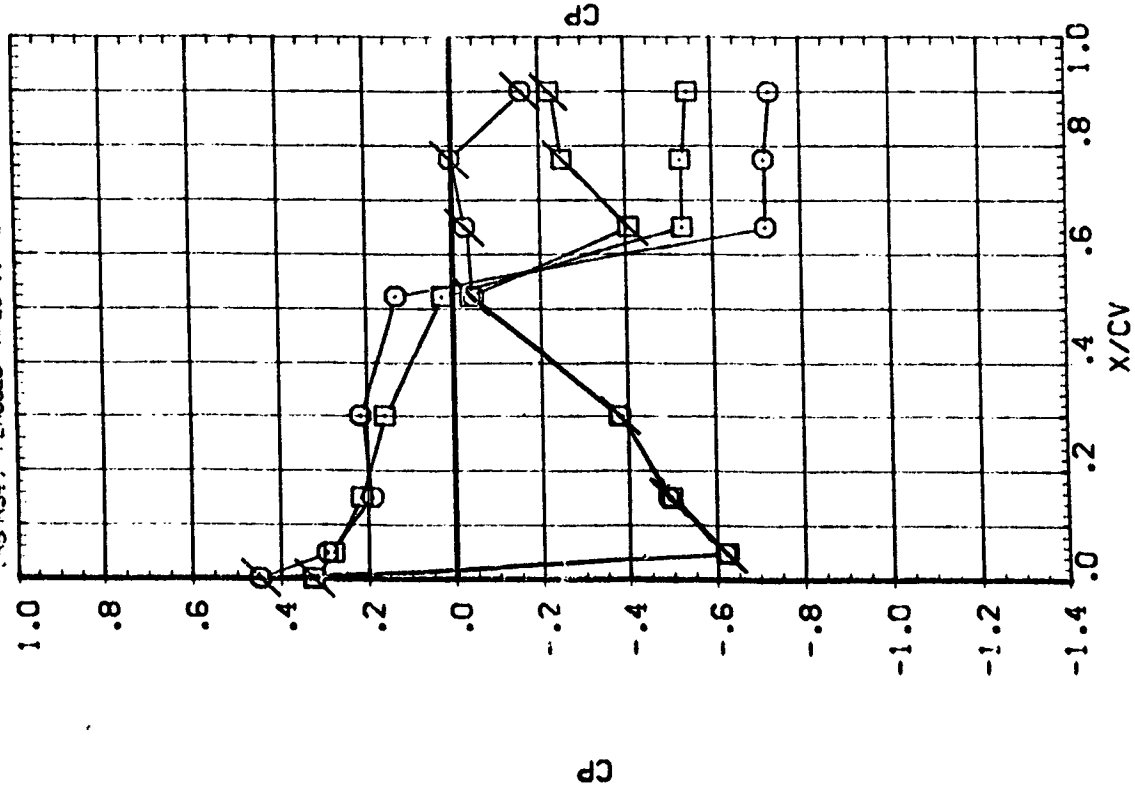
Z/BV
 .84C
 .925

BETAT
 -4.070
 .020

MACH
 1.249

PARAMETRIC VALUES
 ALPHAT .00C
 RUDDER -15.00C
 RUJFLR .00C
 ORBINC .500
 ELEVON .00C

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 (RBMV34) OPEN AMES 11-707 IAS C2A + S3 + T9 LEFT VERTICAL
 (RBMV34) FLAGGED AMES 11-707 IAS C2A + S3 + T9 RIGHT VERTICAL



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

PARAMETRIC VALUES

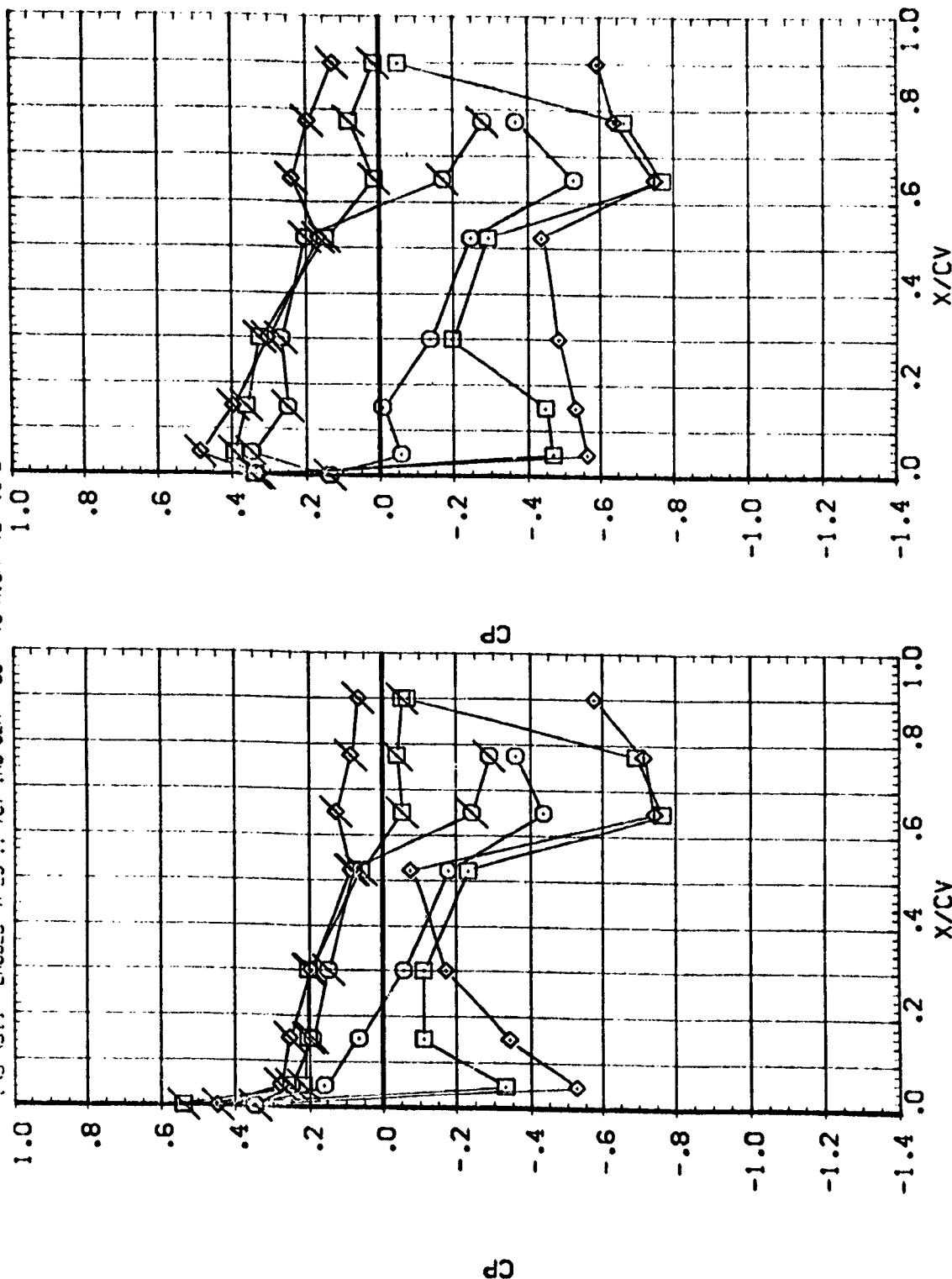
ALPHA	.500
ROD	.000
ROD	.000
ROD	.000
ROD	.000
ROD	.000

SYMBOL Z/BV B-TAT MAC

○	.58	4.110	1.249
□	.316	8.200	
◇	.600		

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RBMV34)	OPEN	ANES 11-707	AN OZA + S3 + T9 LEFT VERTICAL
(RBMV34)	FLASSED	ANES 11-707	AN OZA + S3 + T9 RIGHT VERTICAL



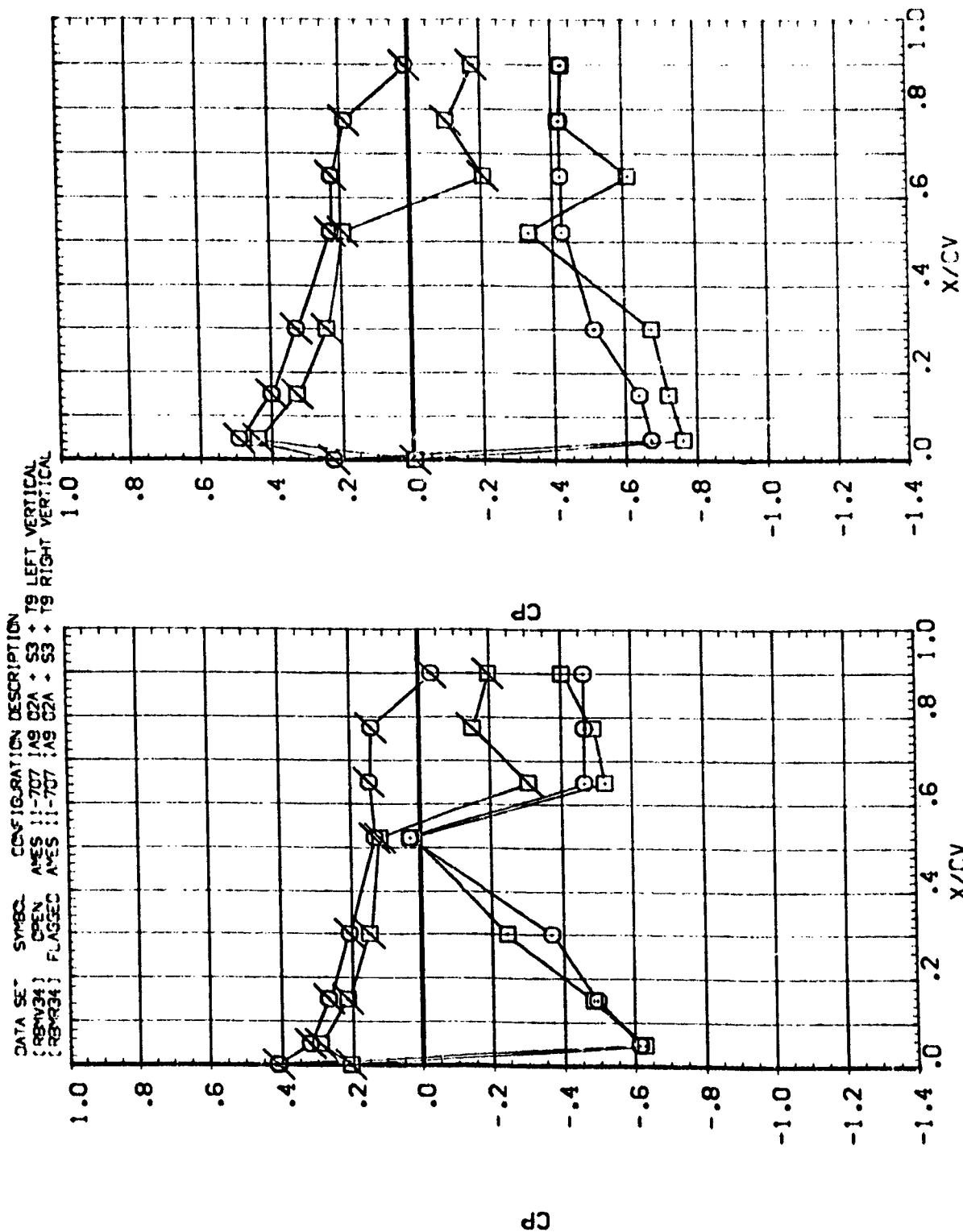


SYMBOL Z/BV .94C .925

BETAT 4.110 8.20C

MACH 1.249

PARAMETRIC VALUES
ALPHAT .000 ORBINC .500
RLOOR -15.00C ELEVON .000
RLOOR .000



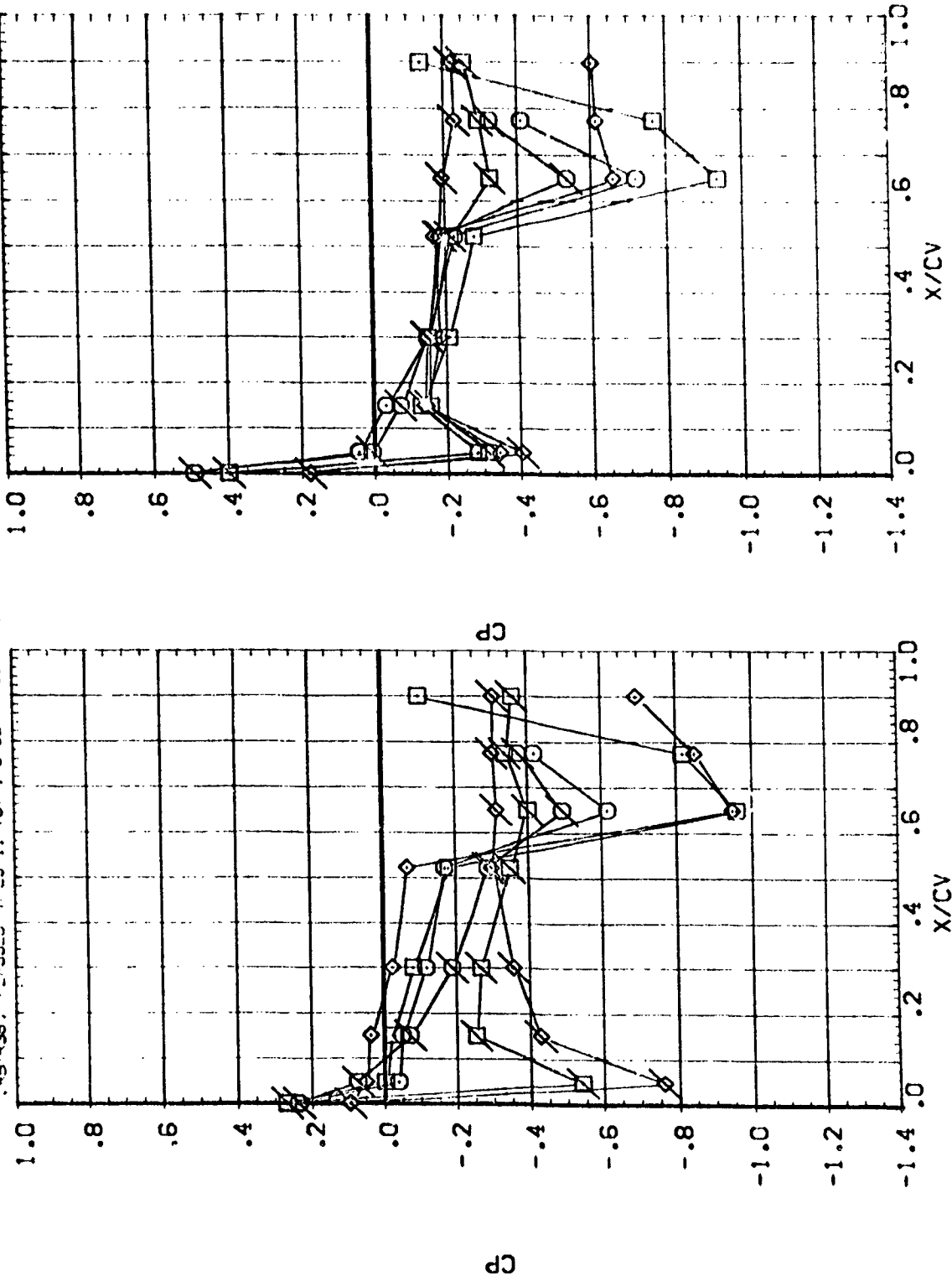
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES



SYMBOL Z/BV BE "A" "AC"
 1.58 -4.07C 1.099
 3.16 .02C
 .60C

PARAMETRIC VALUES
 ALPHAT 8.000 0.91NC
 RUDER -15.000 ELEVON
 RUDFLR .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
 : 95M38: OPEN ANES 11-707 1A9 02A + S3 + T9 LEFT VERTICAL
 : 95M38: FLASSED ANES 11-707 1A9 02A + S3 + T9 RIGHT VERTICAL



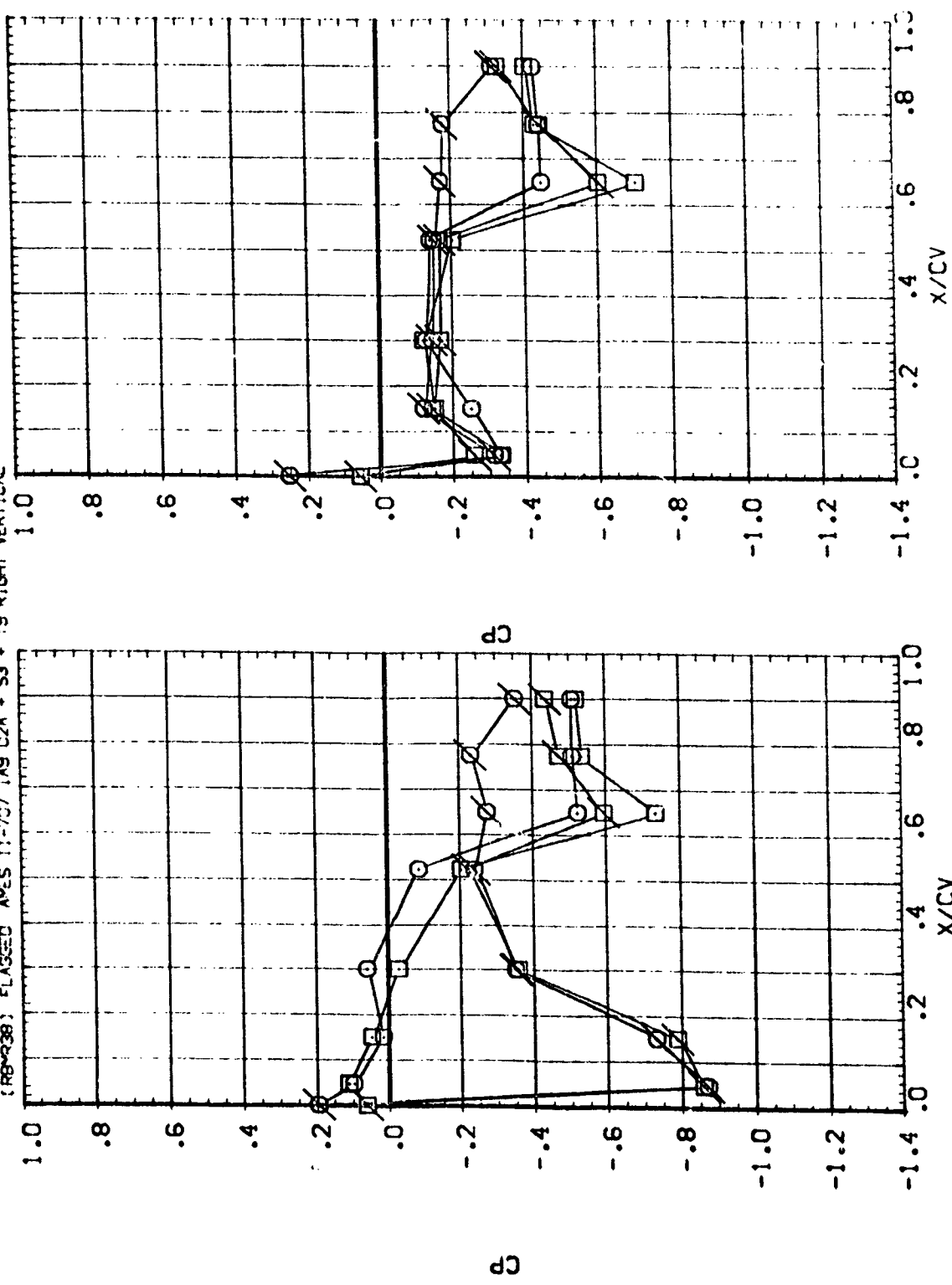
CLOCKWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES



SYNOPSIS Z/BV .840 .925
BETA* -4.070 .020
MACH 1.099

PARAMETRIC VALUES
ALPHAT 8.000 CRBINC .500
RUDDER -15.000 ELEVON .000
RUDFLR .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(RBW38) OPEN ASES 11-707 1A9 C2A + S3 + T9 LEFT VERTICAL
(RBW38) FLAGGED ASES 11-707 1A9 C2A + S3 + T9 RIGHT VERTICAL



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

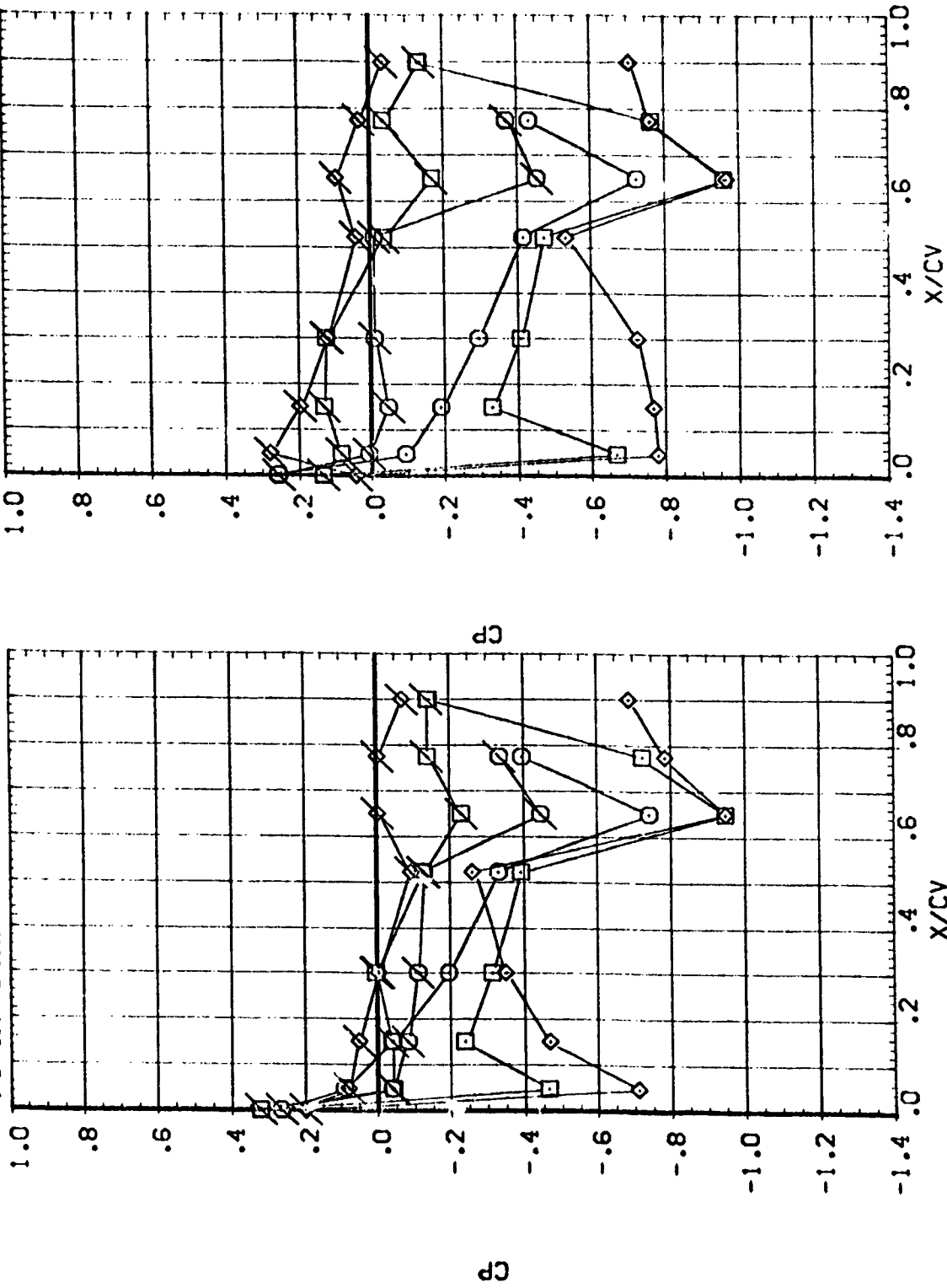


SYNCH Z/BV
()
◇

BETA² MACH
4.160 1.395
8.310

PARAMETRIC VALUES
ALPHA² 8.000 0.810C
RORDER -15.000 ELEVON .000
RORDER .500 .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(RBMV38) OPEN ANES 11-707 1A9 C2A + S3 + 19 LEFT VERTICAL
(RBMV38) FLAGGED ANES 11-707 1A9 C2A + S3 + 19 RIGHT VERTICAL



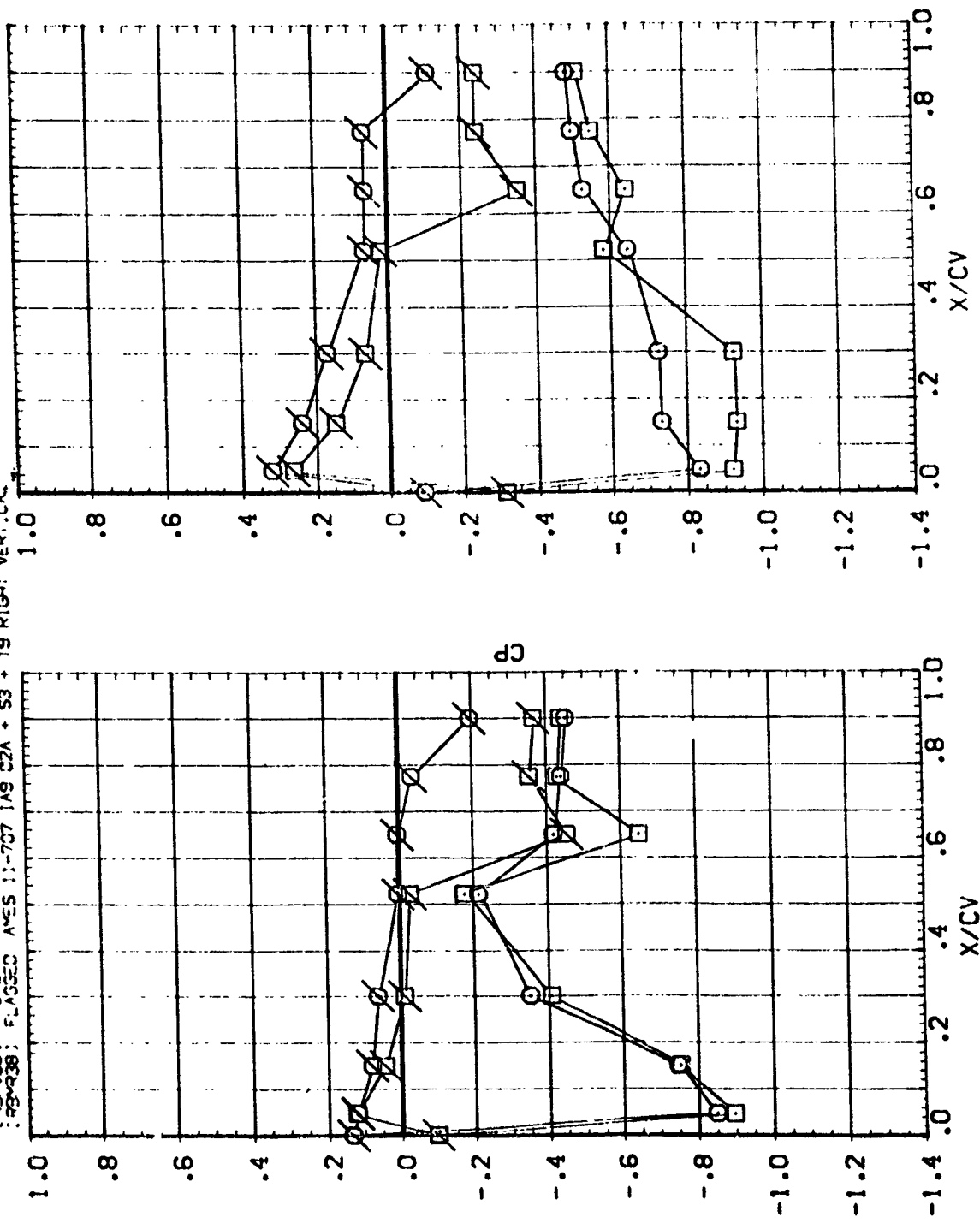
CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES



SYMBOL Z/BV BETA* MACH
0.84C 4.15C 1.099
0.925 8.31C

PARAMETRIC VALUES
ALPHAT 8.000 ORBINC .500
RUDDER -15.000 ELEVON .000
RUDFLR .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(RBM38) OPEN AYES 1:-707 1A9 02A + S3 + T9 LEFT VERTICAL
(RBM38) FLAGGED AYES 1:-707 1A9 02A + S3 + T9 RIGHT VERTICAL



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

PARAMETRIC VALUES

ALPHAT	8.000	ORGINC	.500
RJDER	-15.000	ELEVSN	.000
RJDFLR	.000		

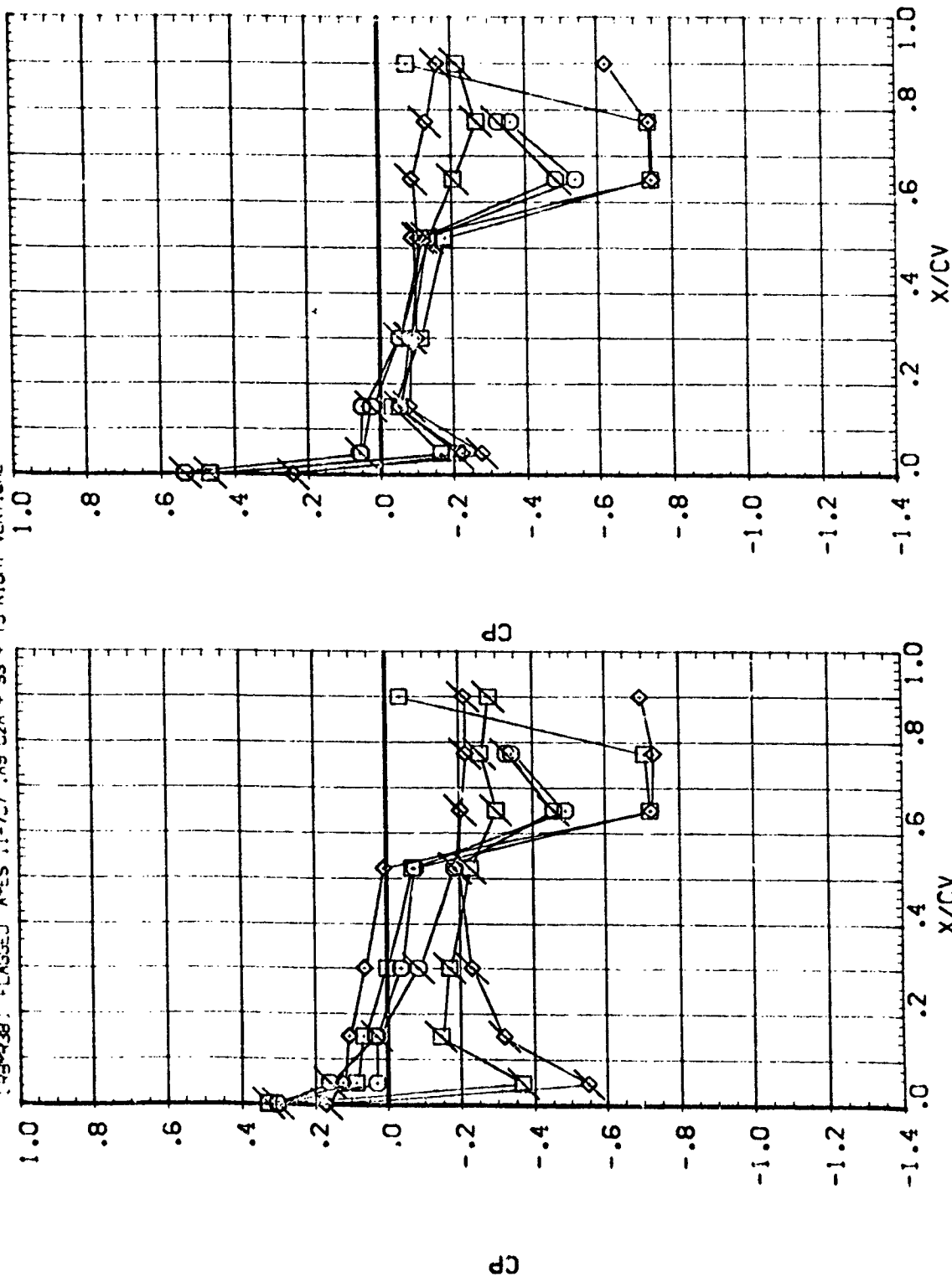
SYMBOLS

2/BV	9.1A7	MACH
.158	-4.04C	1.245
.316	.020	
.500		

DATA SET SYMBOL CONFIGURATION DESCRIPTION

RBW38: OPEN ANES 11-707 1A9 C2A + S3 + T9 LEFT VERTICAL

RBW38: FLASSED ANES 11-707 1A9 C2A + S3 + T9 RIGHT VERTICAL



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES



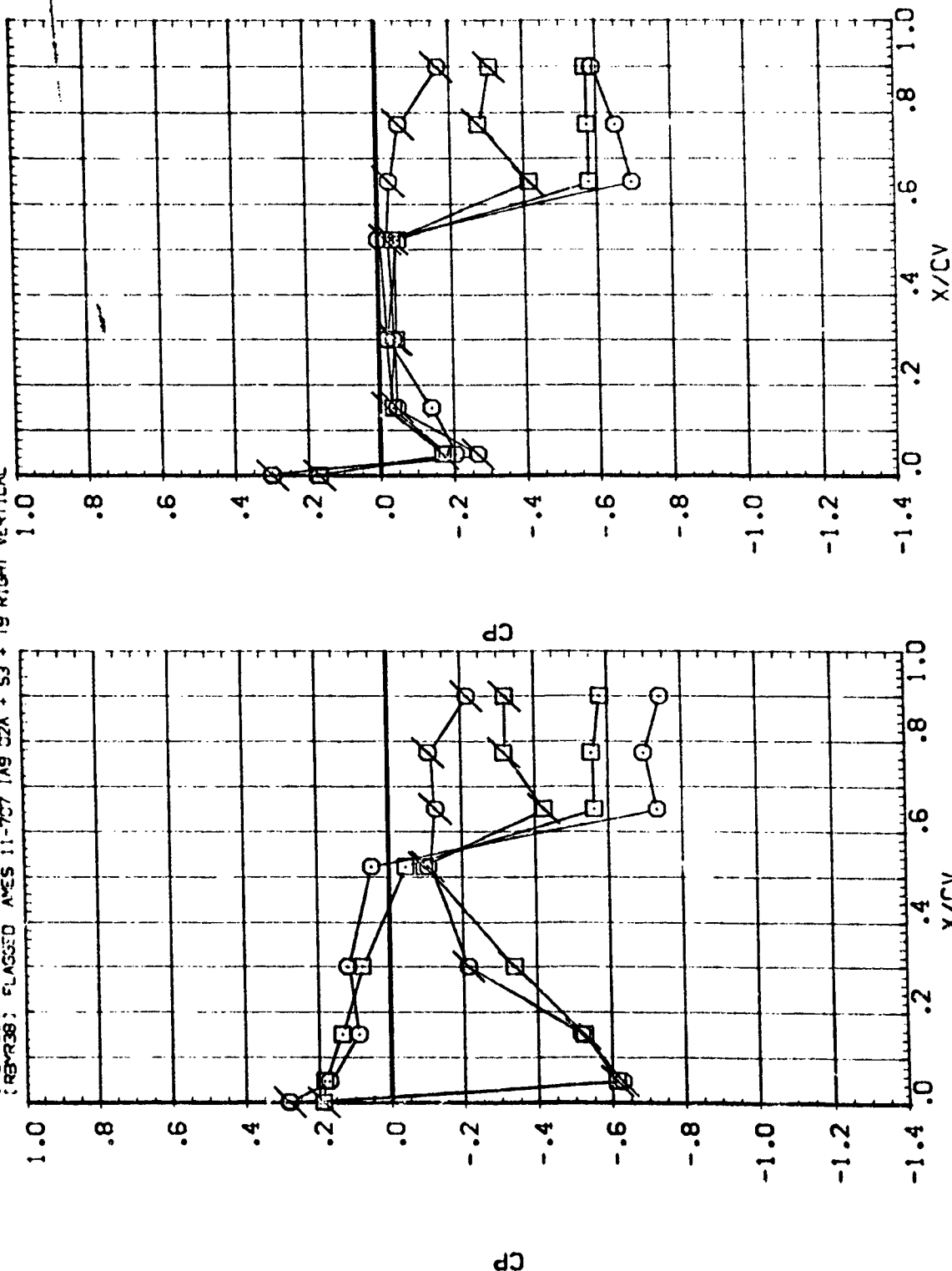
SYMBOL Z/BV .840
.925

BETAT -4.040
.020

MACH 1.245

PARAMETRIC VALUES
ALPHAT 8.000
RUDDER -15.000
RUDFLR .000
ORBINC .500
ELEVON .000

DATA SET SYMBOL CONFIGURATION DESCRIPTION
(RBMV38) C07N ANES 11-707 IAS 02A + S3 + T9 LEFT VERTICAL
(RBMV38) FLAGGED ANES 11-707 IAS 02A + S3 + T9 RIGHT VERTICAL



CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES

PARAMETRIC VALUES

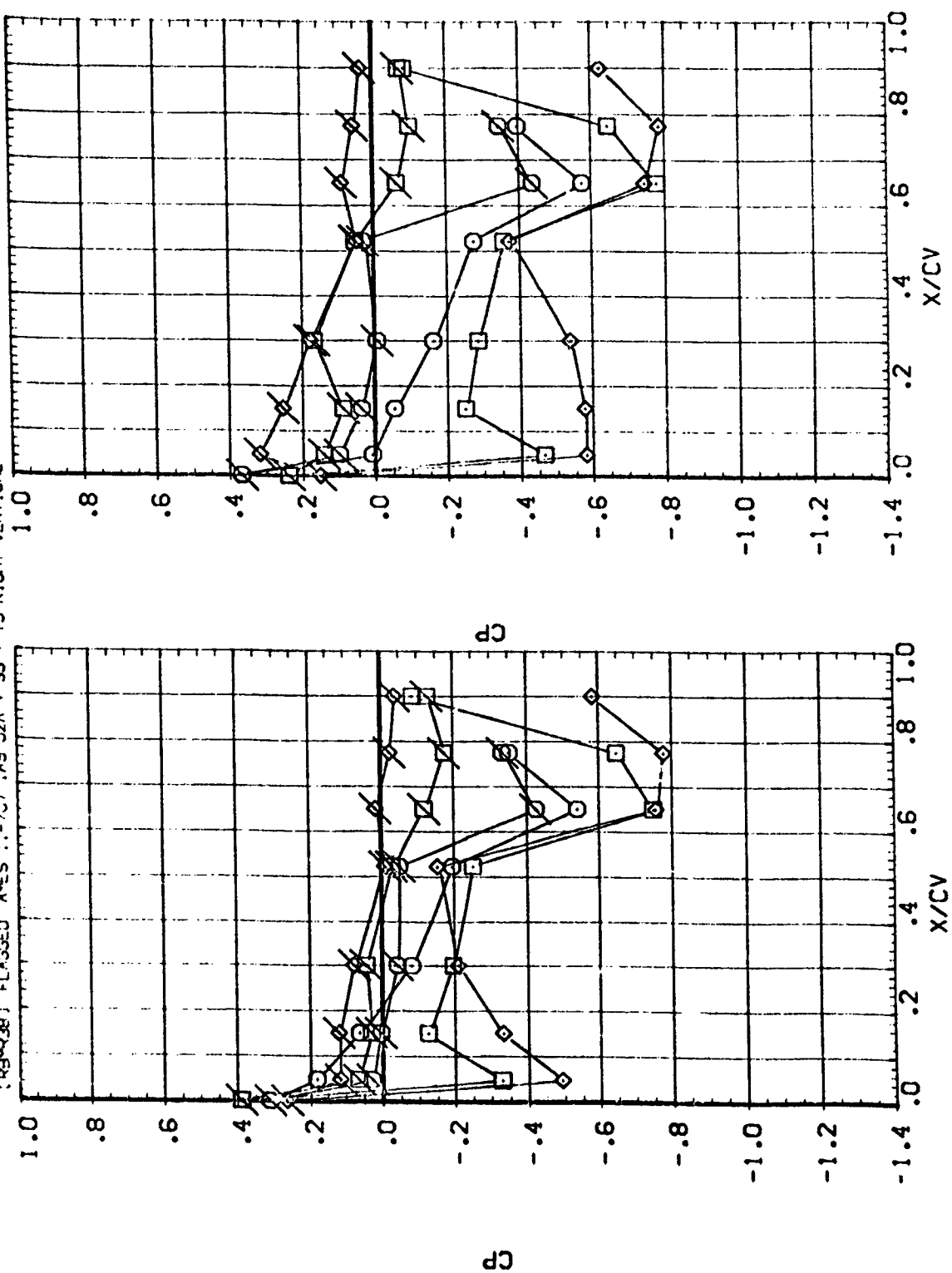
ALPHAT	8.000	CRBINC	.500
RJDDER	-15.000	ELEVON	.000
RJDFLR	.000		

SYMBOL Z/BV BETAT WACH

○	.158	4.130	1.245
□	.316	8.250	
◇	.600		

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RBMV38)	OPEN	AMES 11-707 :A9 02A + S3 + T9 LEFT VERTICAL
(RBMV38)	FLAGGED	AMES 11-707 :A9 02A + S3 + T9 RIGHT VERTICAL

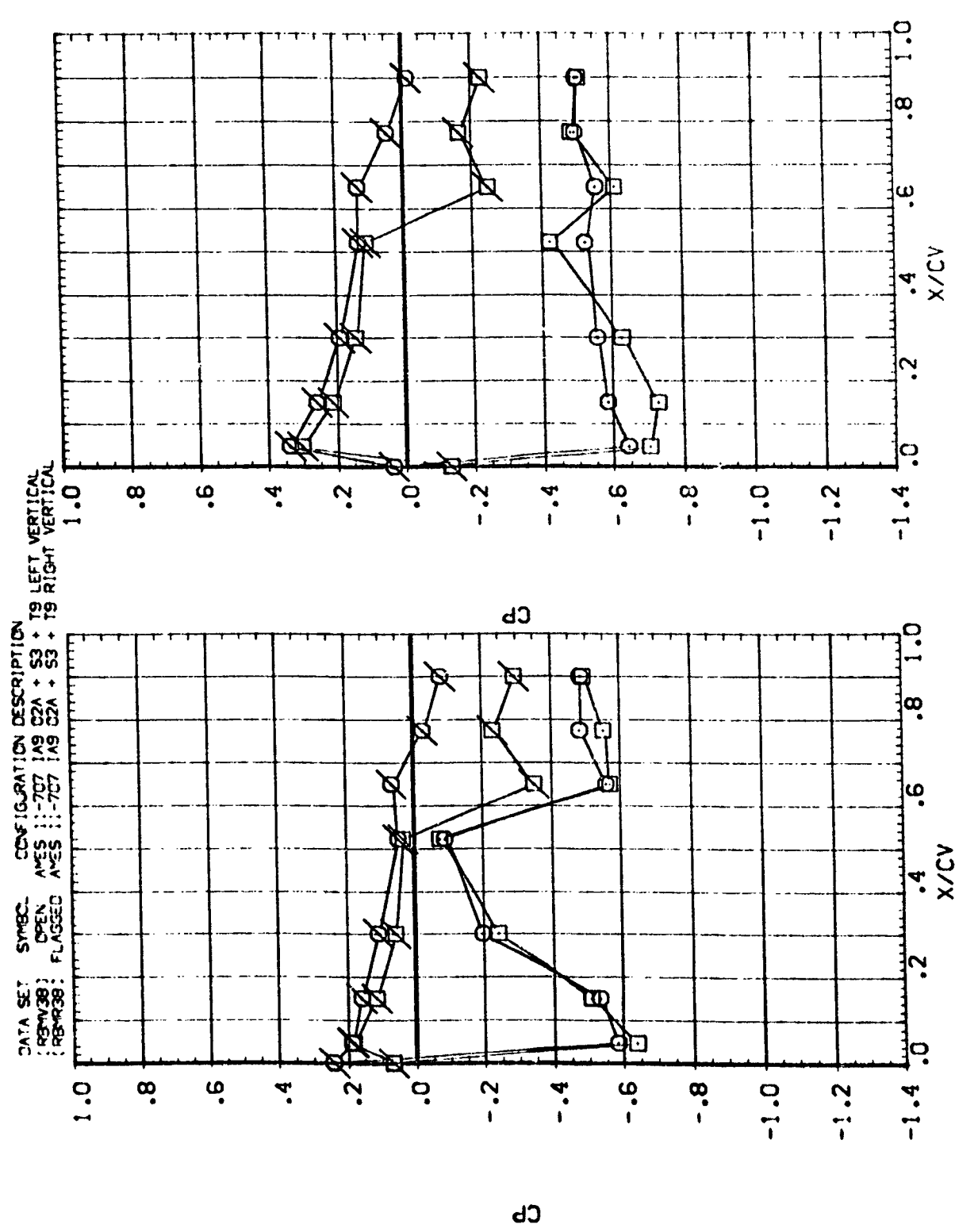


CHORDWISE DISTRIBUTION OF LEFT AND RIGHT SURFACE VERTICAL TAIL PRESSURES



SYMBOL Z/BV BETAT WACH
01 .840 4.13C 1.245
.925 8.25C

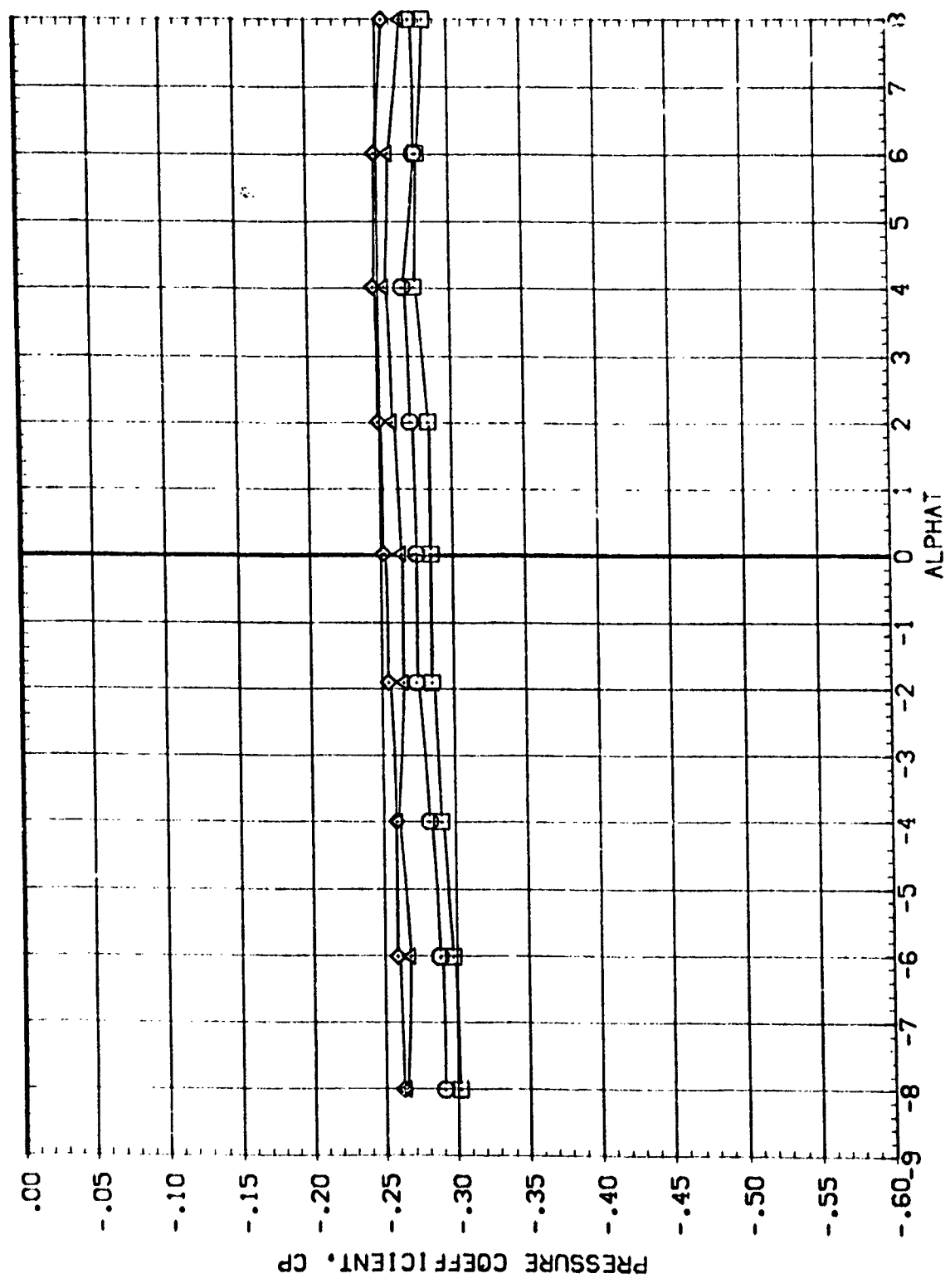
PARAMETRIC VALUES
ALPHAT 8.000 DRBINC .500
RJOOR -15.000 ELEVON .000
RJOFLR .000



AS-104

AVES 11-707 1A9 C2A - S3 + T9 ORBITER BASE (RBMCO2)

SYNCH	1.000	A	.000	WACH	.598	PARAMETRIC VALUES			
1.000						BETA*	.000	ORBNIC	.500
2.000						RUDDER	.000	ELEVON	.000
3.000						RUDFLR	.000		
4.000									

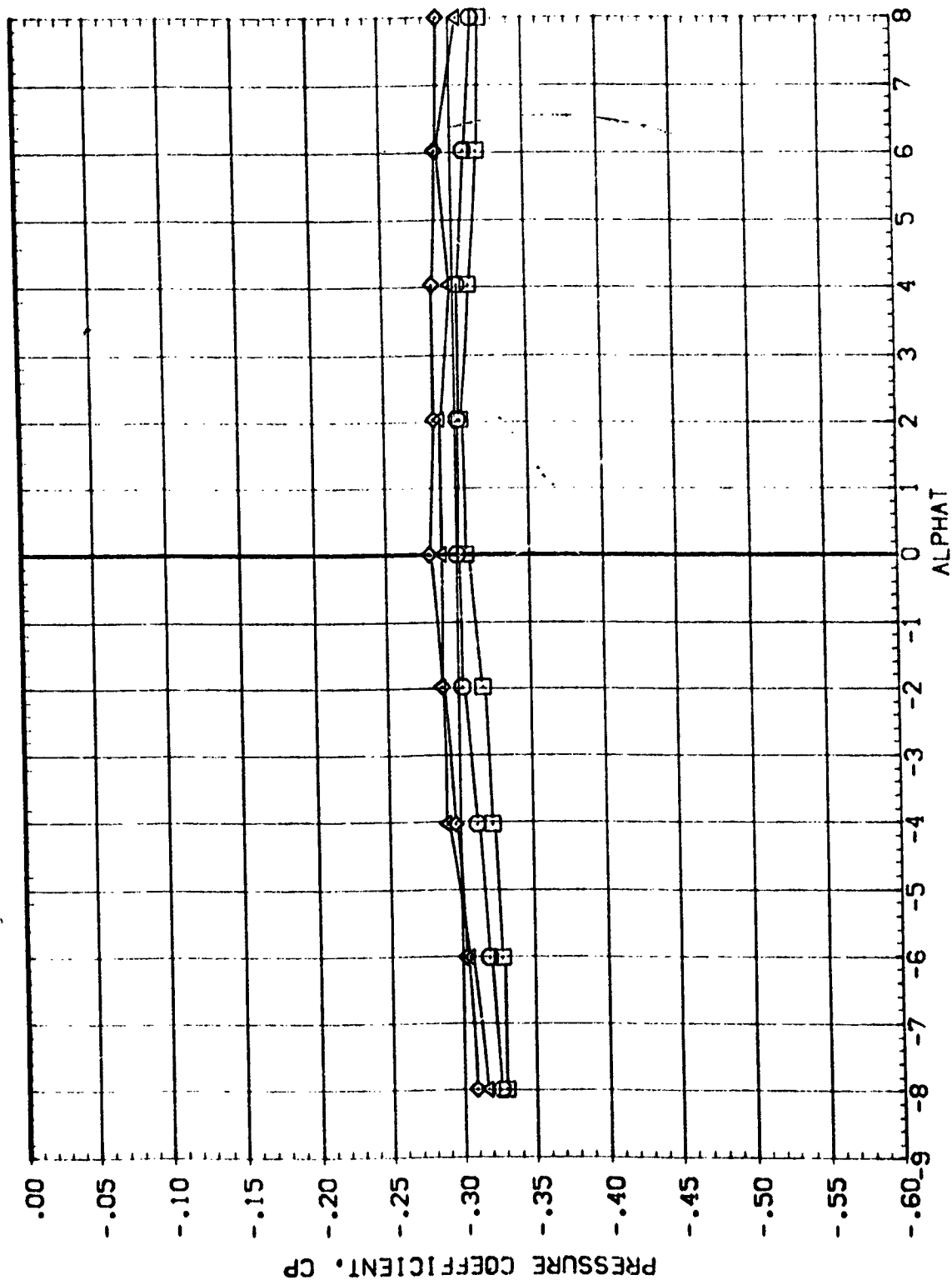


ORBITER BASE PRESSURES



AMES 11-707 1A9 C2A + S3 + T9 ORBITER BASE (RBMCO2)

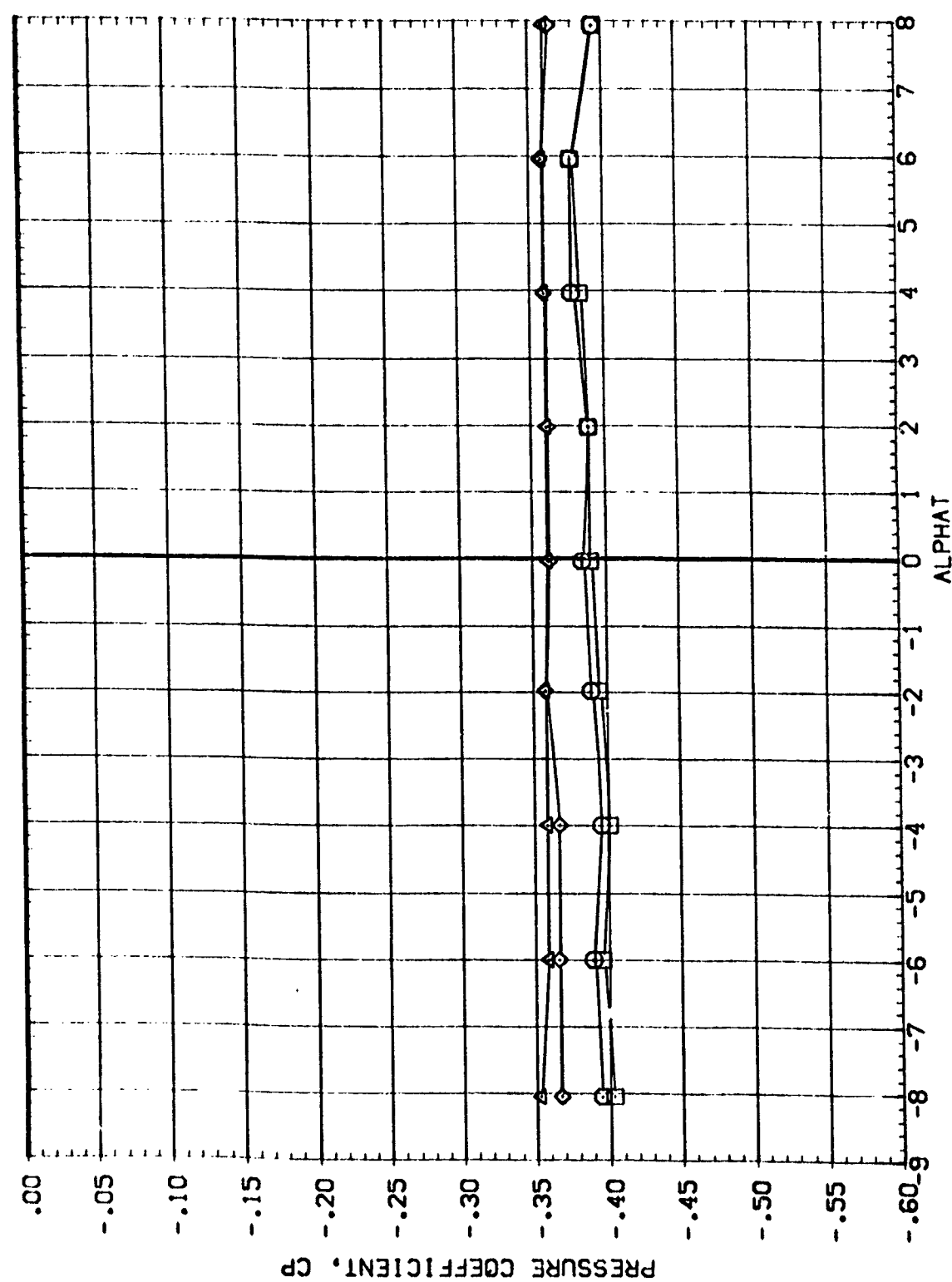
SYMBOL		TAP NO	A	MACH	PARAMETRIC VALUES			
□	○	1.000	.000	.903	BETAT	ORBIT INC	.500	
◇	△	2.000			RUDER	ELEVON	.000	
		3.000			RUDFLR		.000	
		4.000						



ORBITER BASE PRESSURES

AVES 11-707 1A9 C2A + S3 + 19 ORBITER BASE (RBMC02)

SYMB	TAP NO	A	MACH	BETAT	ORBITER	ORBITER
□	1.000	.000	1.102	RJODER	ELEVON	.500
□	2.000	.000		RJOFLL		.000
□	3.000					
□	4.000					



ORBITER BASE PRESSURES

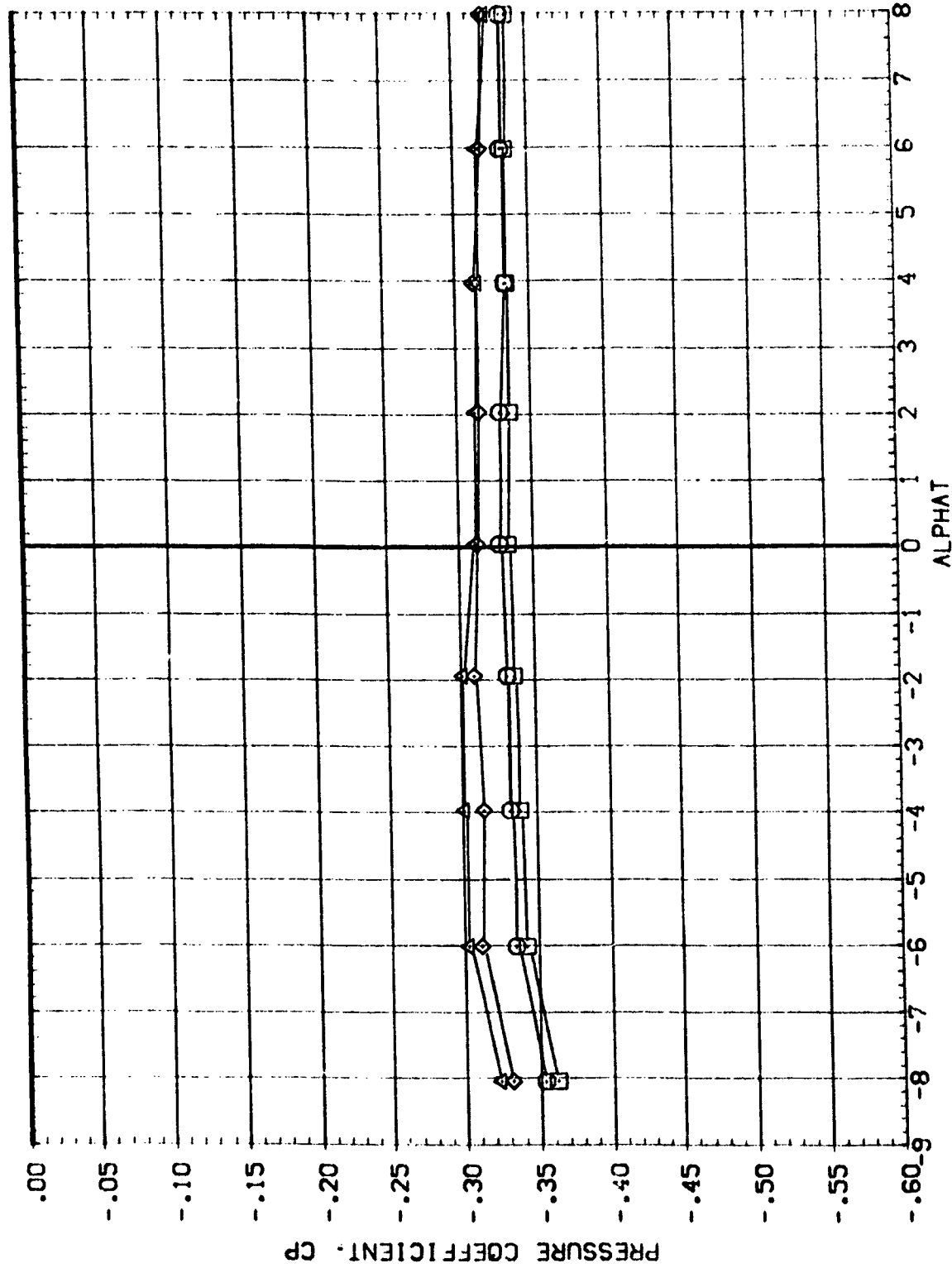


AMES :1-707 :A9 02A + S3 + T9 ORBITER BASE (RBMCC02)

PARAMETRIC VALUES
 BETAT .000 ORBINC .500
 RDOOR .000 ELEVON .000
 RDOFLR .000

SYMBOL
 1.000
 2.000
 3.000
 4.000

AP NO A WACH
 1.000 1.249

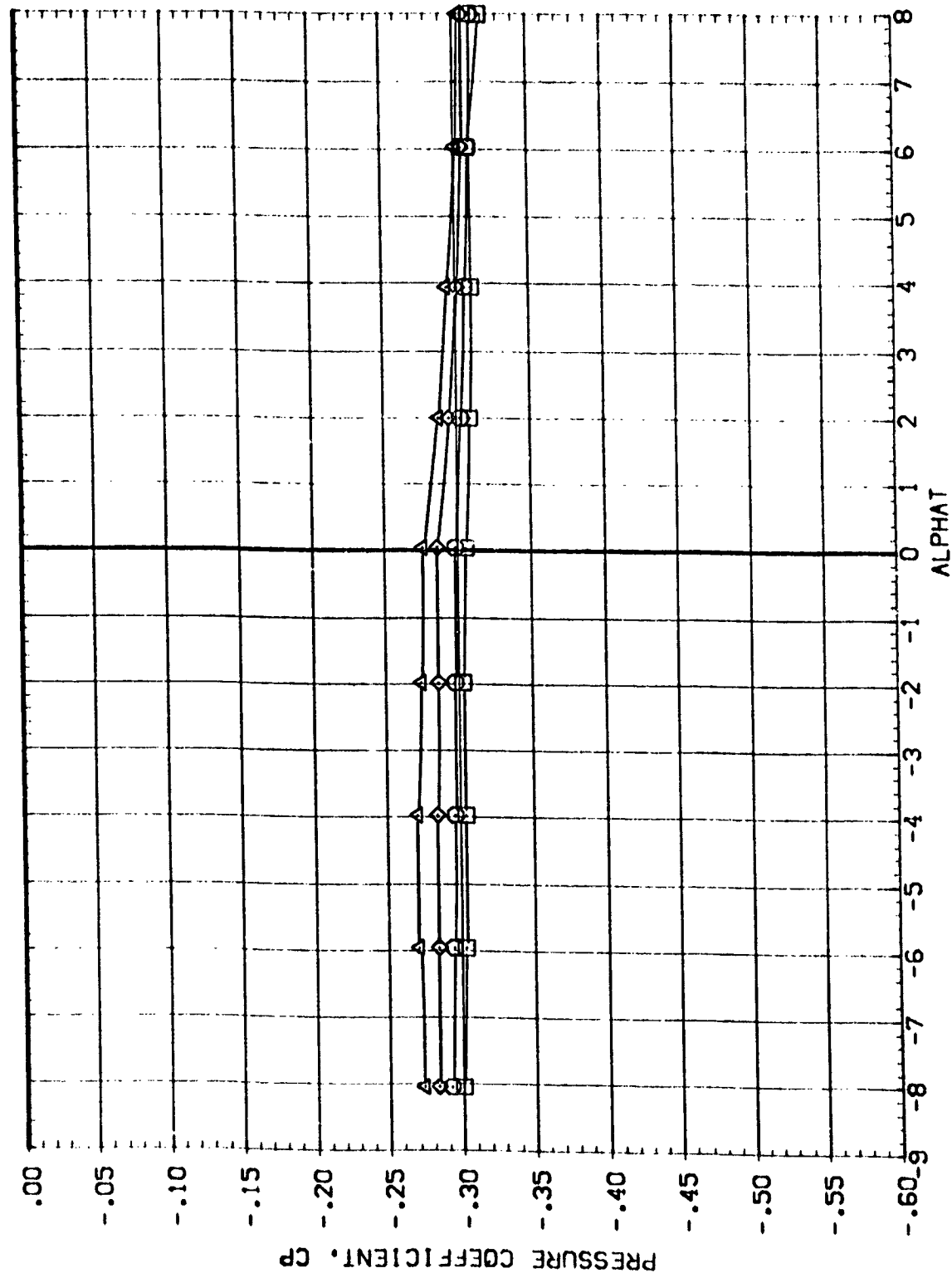


ORBITER BASE PRESSURES

AMES 11-707 1A9 C2A + S3 + T9 ORBITER BASE

(RBM002)

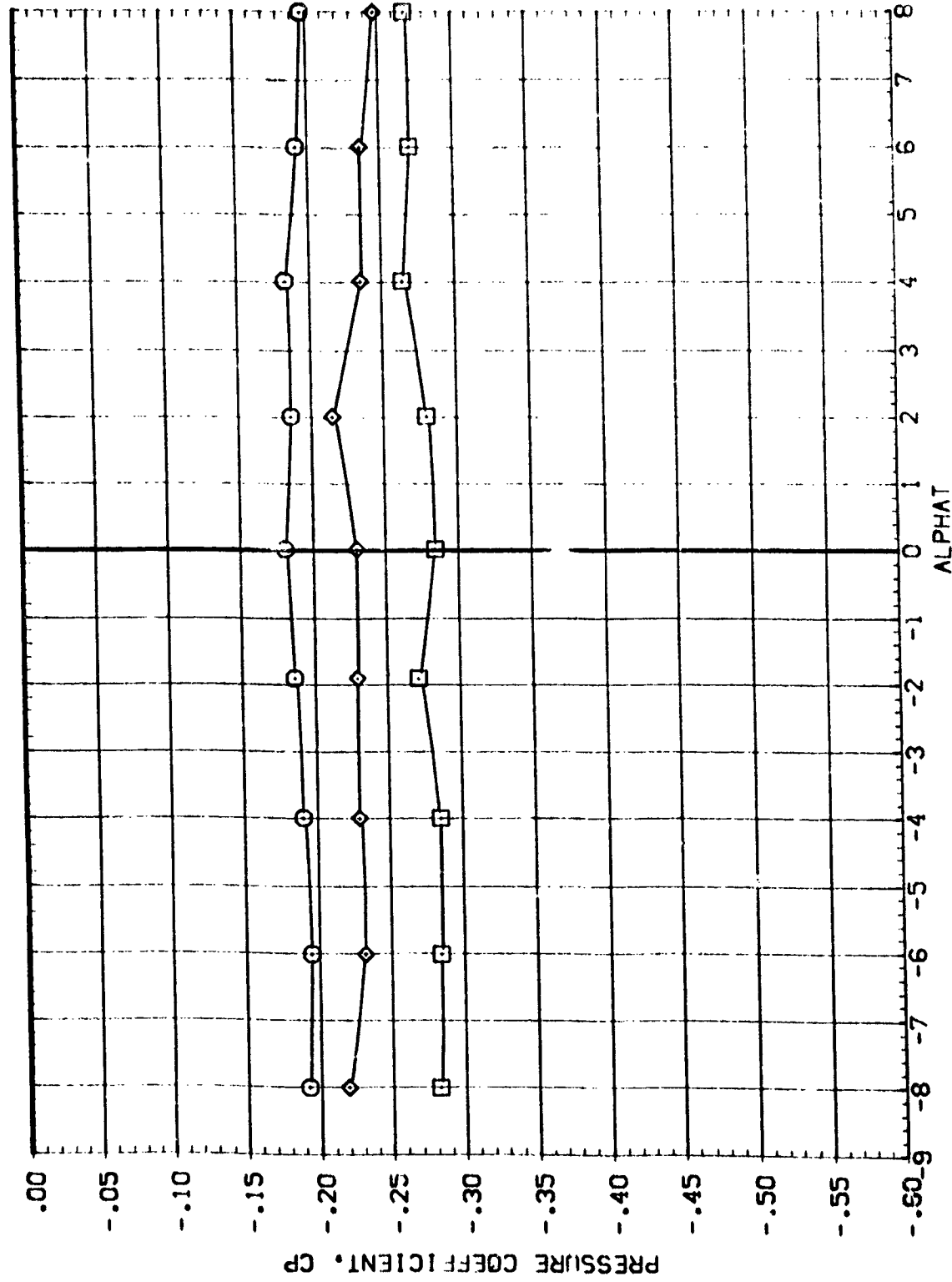
SYMBOL	TAP NO	A	MACH	PARAMETRIC VALUES
1.000	1.000	.000	1.401	BETAT .000 ORBINC .500
2.000	2.000	.000		RUDDER .000 ELEVON .000
3.000	3.000			RUDFLR .000
4.000	4.000			





AVES 11-707 1A9 C2A + S3 + T9 ORBITER BASE (RBMCC02)

SYMBOL		TAP NO	A	MACH	PARAMETRIC VALUES			
○		5.000	.000	.598	BETAT	ORBIT INC	.500	
◇		6.000	.000		RUDER	ELEVON	.000	
□		8.000			RUDFLR		.000	

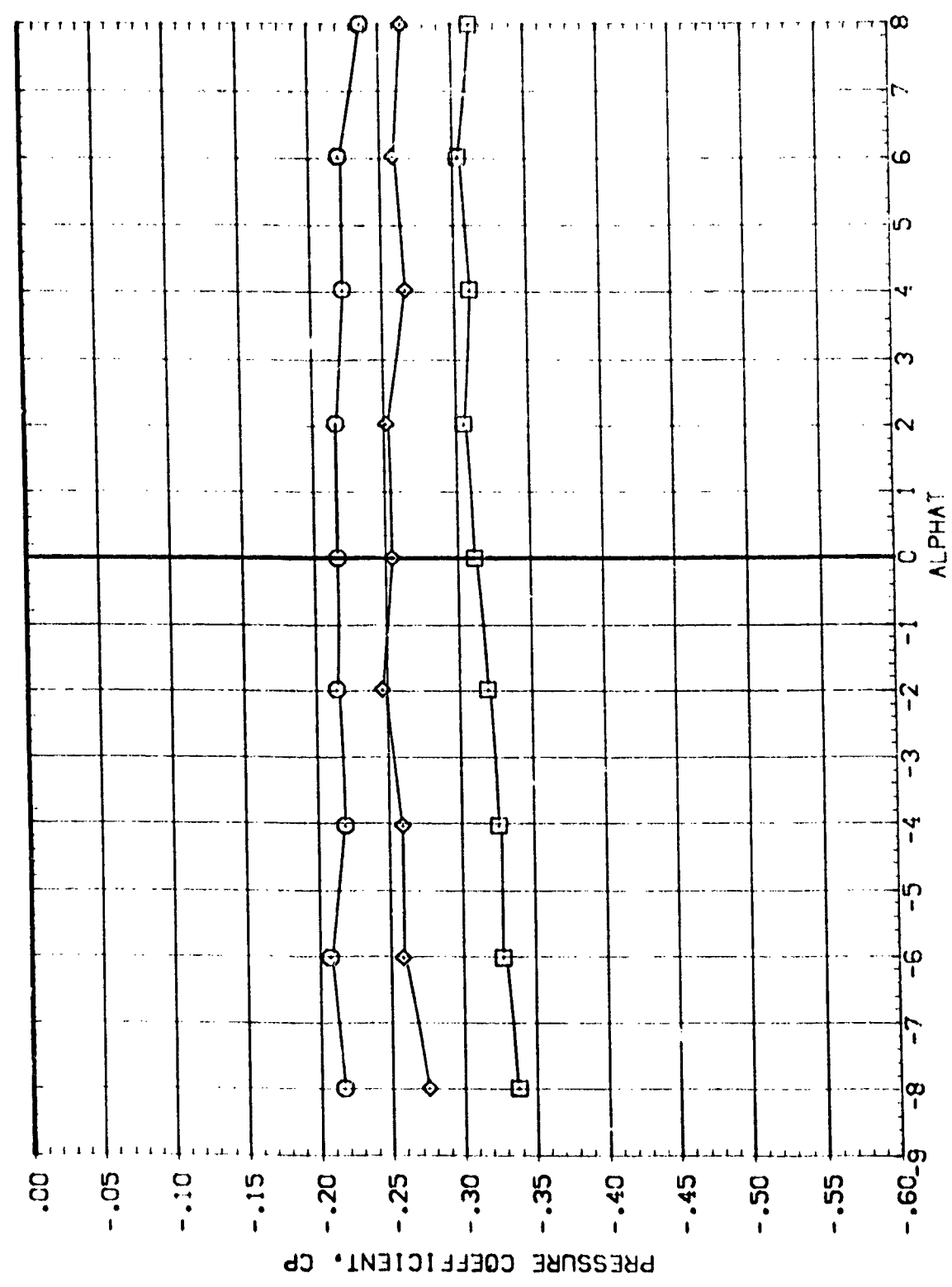


ORBITER BASE PRESSURES



AVES 11-707 1A9 02A + S3 + T9 ORBITER BASE (RBMCO2)

SYMBOL	AP NO	A	MACH	PARAMETRIC VALUES
◇	5.000	.000	.000	BETAT .500
	6.000			ORBITING .000
	8.000			ELEVON .000
				RUDLER .000
				RUDLER .000



ORBITER BASE PRESSURES

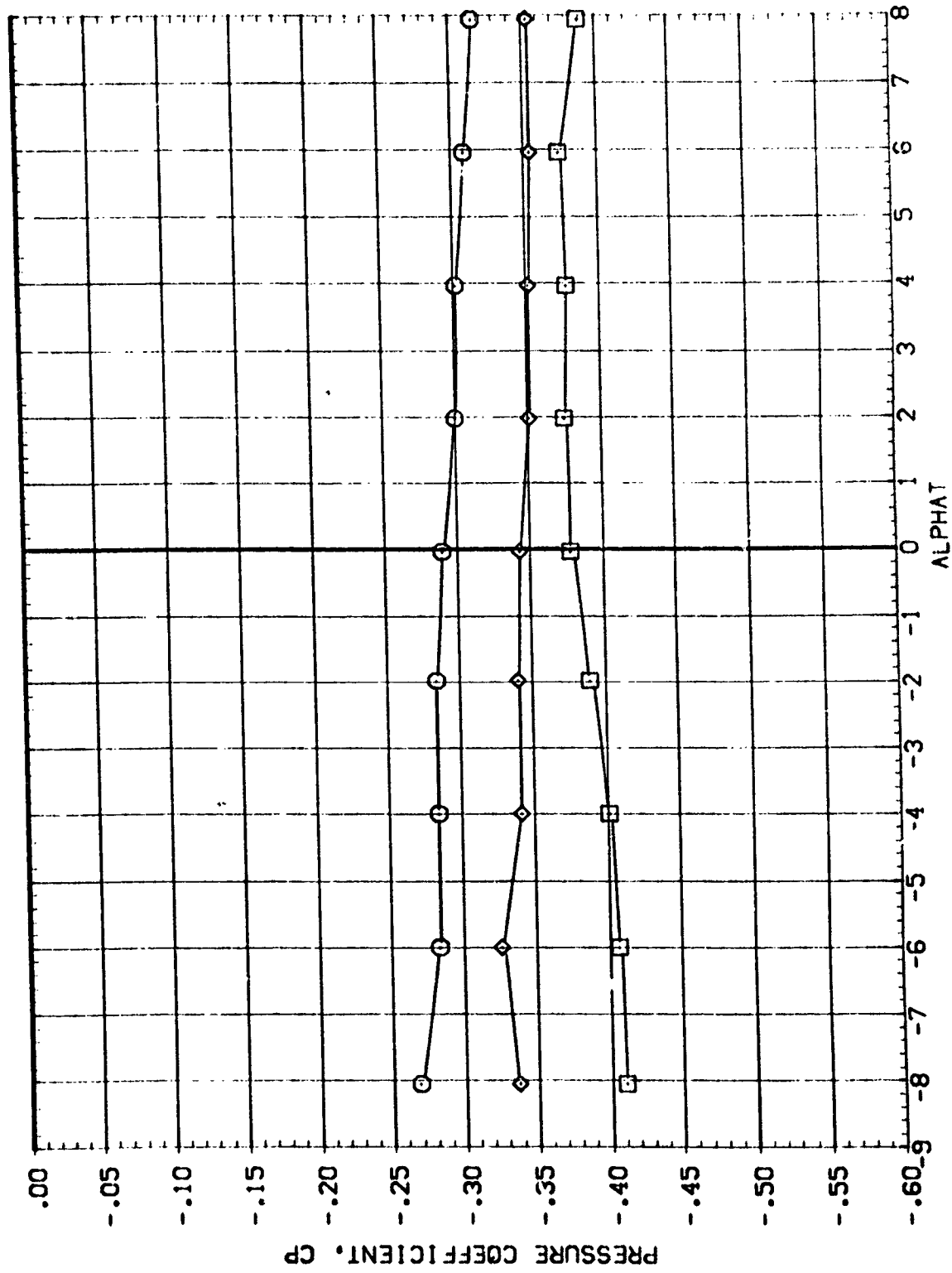


112

AMES 11-707 1A9 02A + S3 + T9 ORBITER BASE (RBMCO2)

SYMBOL TAP NO A MACH
5.000
6.000
8.000

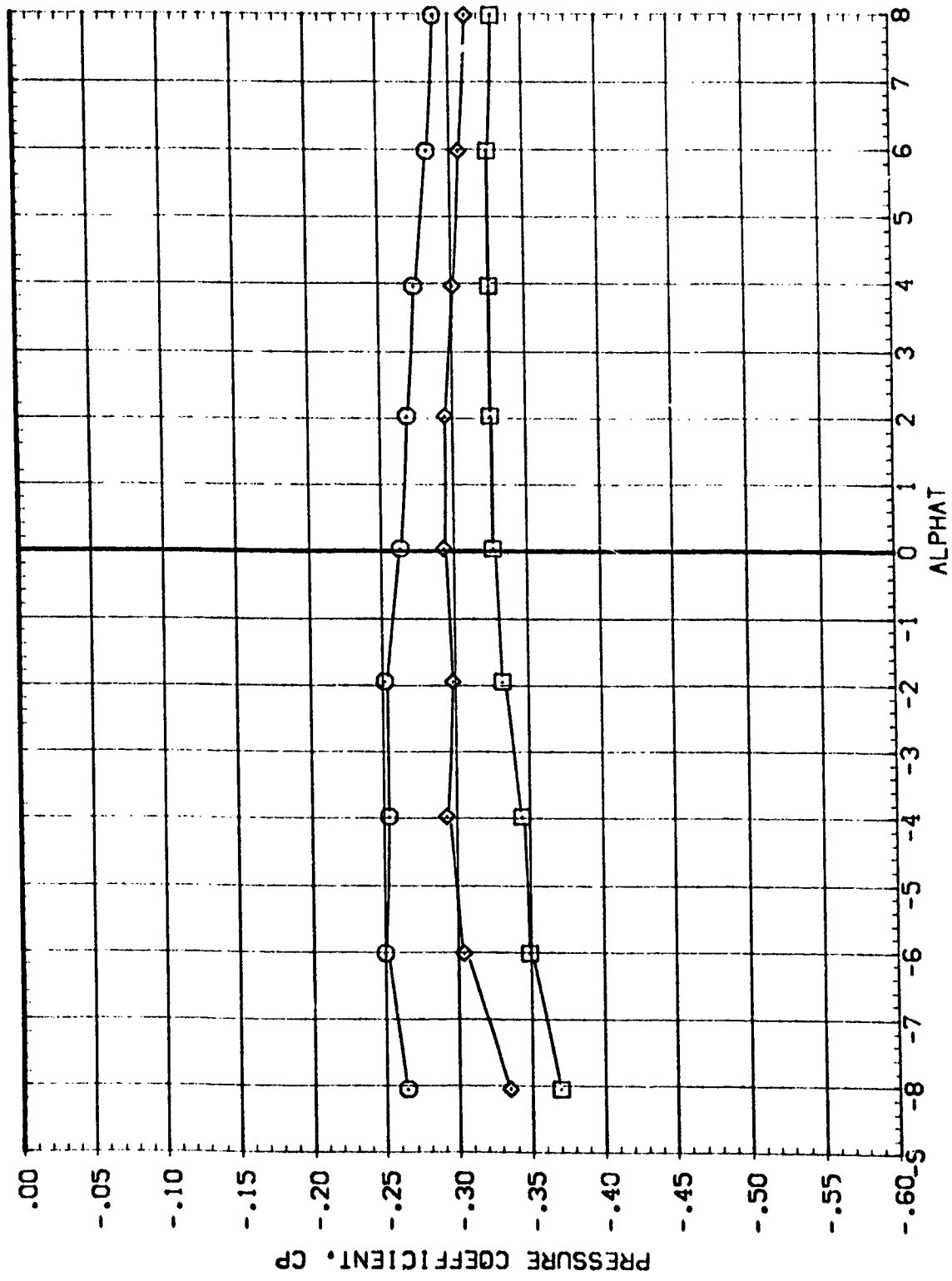
PARAMETRIC VALUES
BETAT .000 ORBITING .500
RUDDER .000 ELEVON .000
RUDDER .000



ORBITER BASE PRESSURES

AVES 11-707 1A9 02A + S3 + T9 ORBITER BASE (RBMC02)

SYNCH	TAP NO	A	MACH	BETAT	ORBITING
110	5.000	.000	1.249	RJDDER	.000
	6.000			RJDFLR	.000
	8.000				

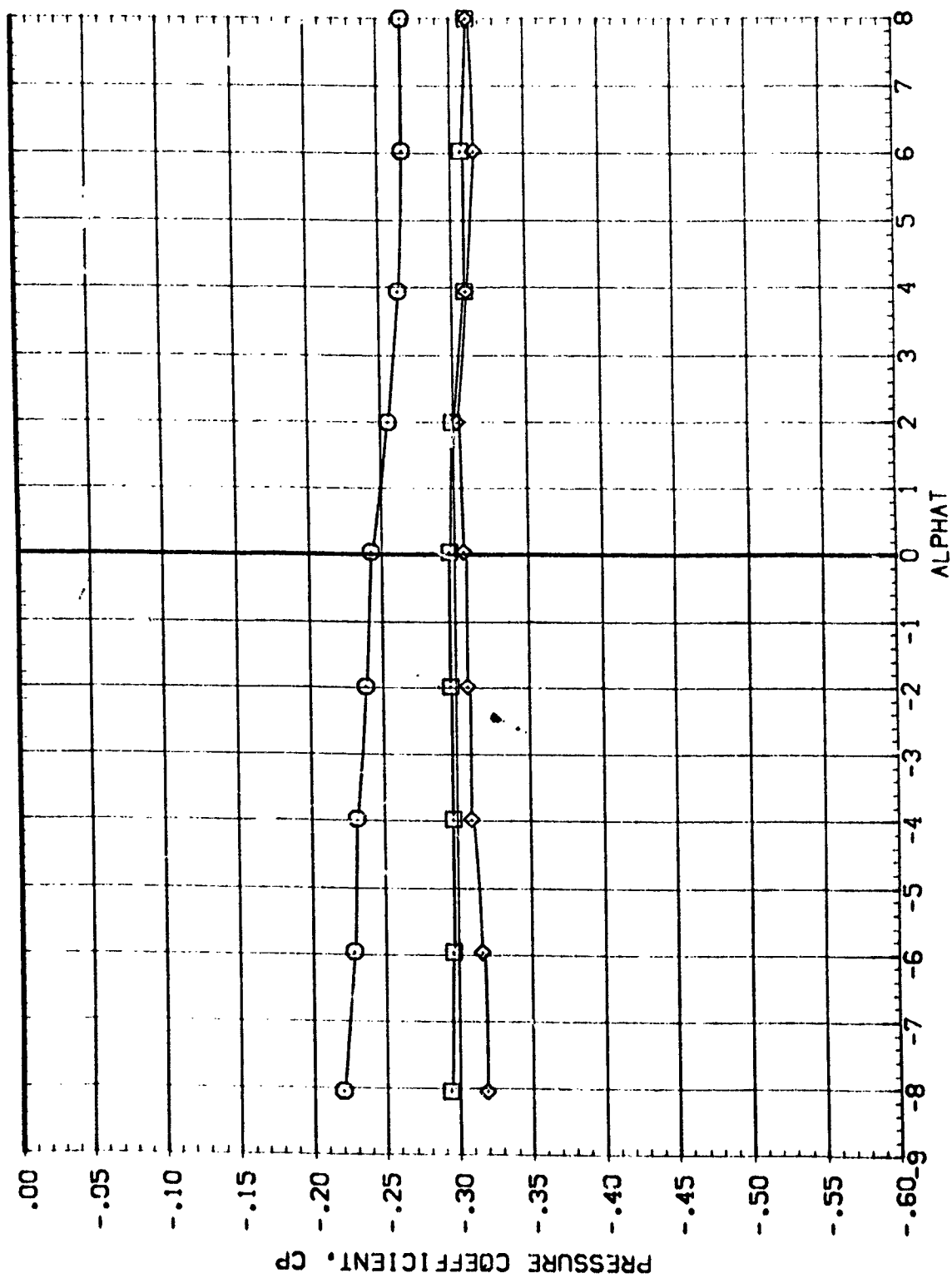


ORBITER BASE PRESSURES



AVES : 1-707 : A9 02A + S3 + T9 ORBITER BASE (RBMCC02)

SYMBOL	APIC	A	MACH	BETAT	ORBITING	ELEVON
○	5.000	.000	1.401	RUDDER	.000	.000
□	6.000			RUDFLR	.000	.000
◇	8.000					



ORBITER BASE PRESSURES

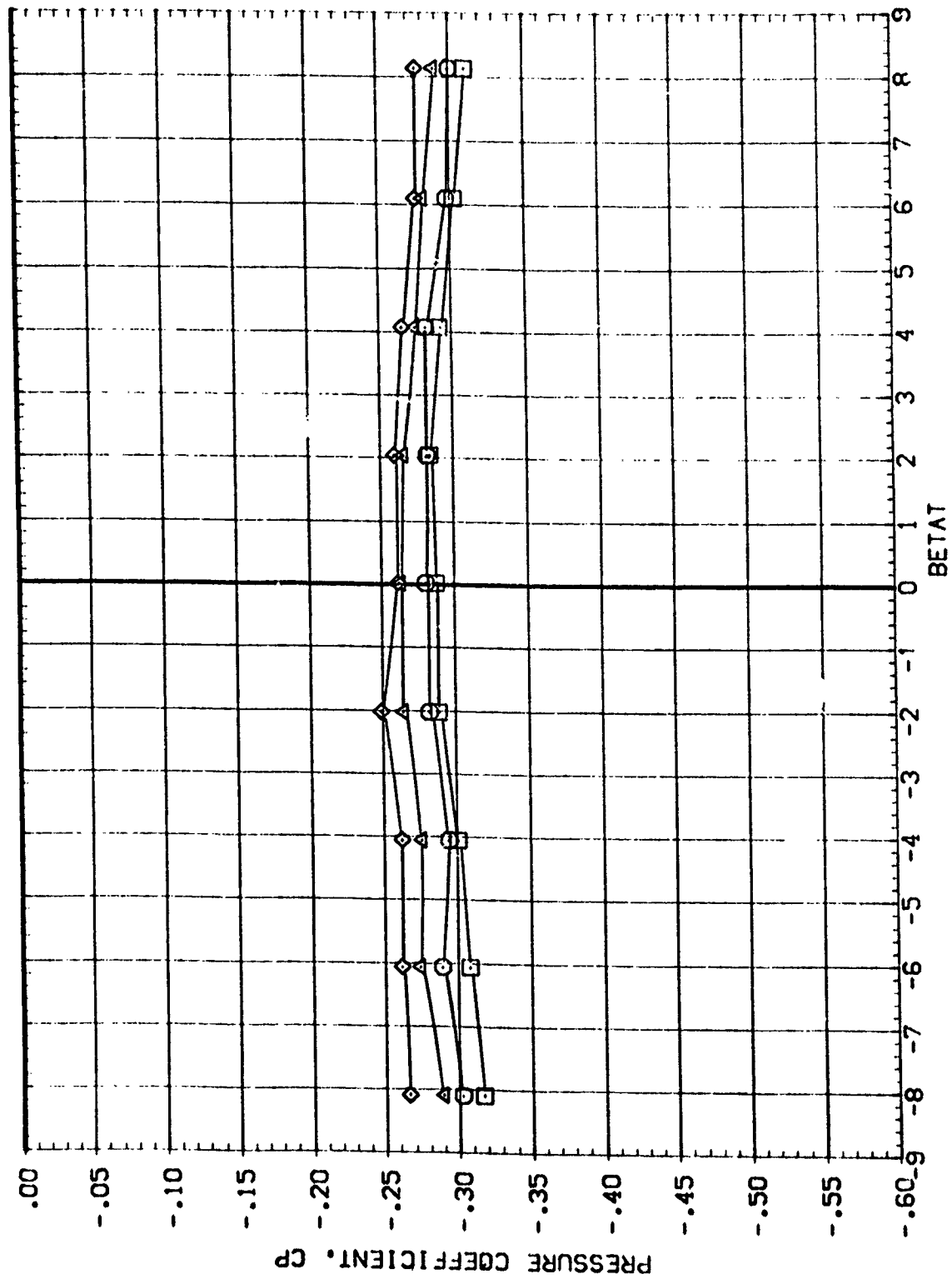


AVES 1:-707 LAS C2A + S3 + 19 ORBITER BASE (RBMCO7)

SYMBOL
□
△
◇

TAP NO A MACH
1.000 .000 .597
2.000
3.000
4.000

PARAMETRIC VALUES
ALPHAT .000 ORBITING .500
RUDDER .000 ELEVON .000
RUDDER .000

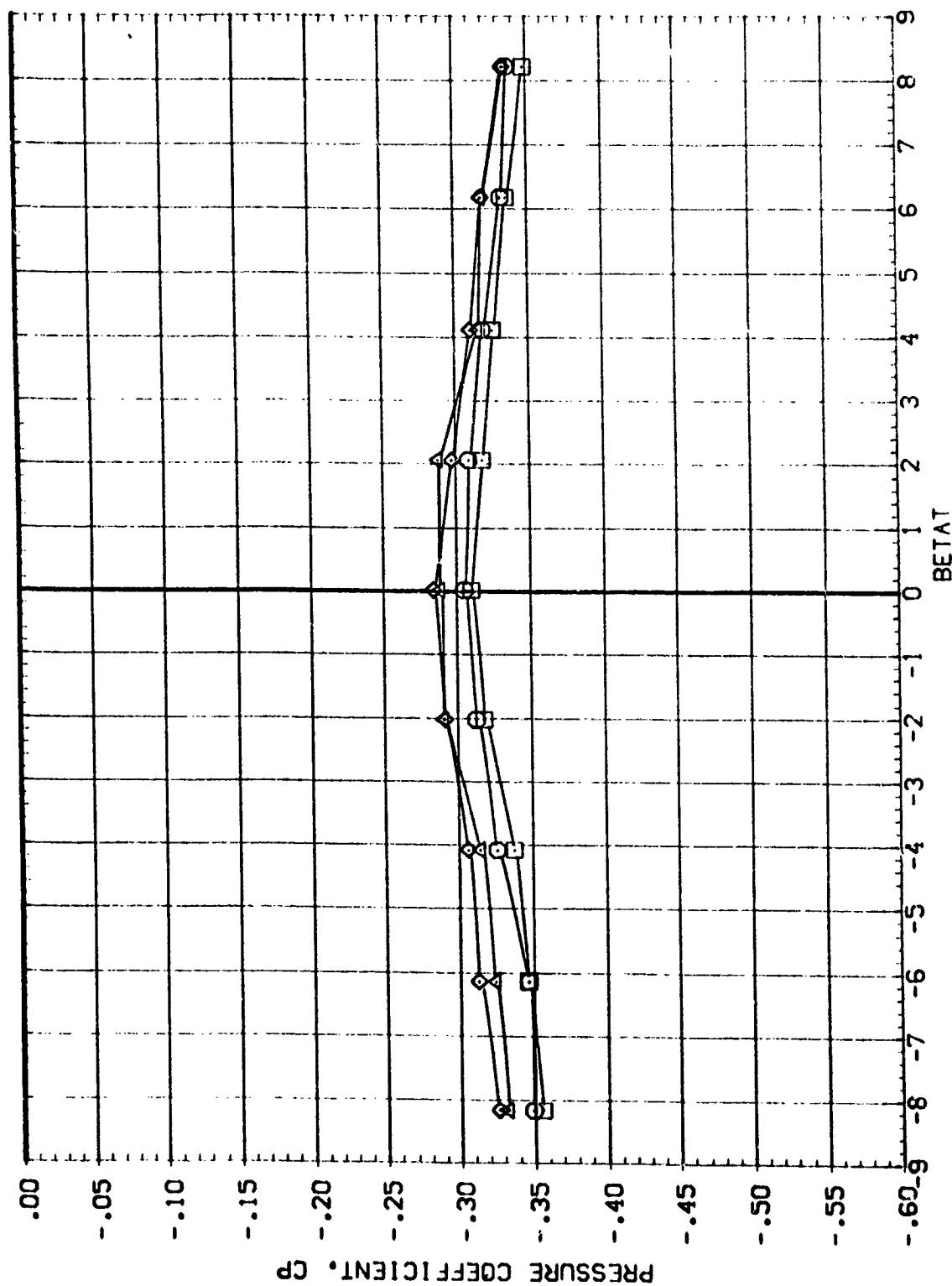


ORBITER BASE DECEMBER



AVES :: -707 :A9 02A + S3 + T9 ORBITER BASE (RBMCC07)

SYMBOL	TAP NO	A	MACH	PARAMETRIC VALUES
◇	1.000	.000	.900	ALPHA: .000 ORBITALC .500
◇	2.000	.000	.900	RUDER .000 ELEVON .000
◇	3.000	.000	.900	
◇	4.000	.000	.900	



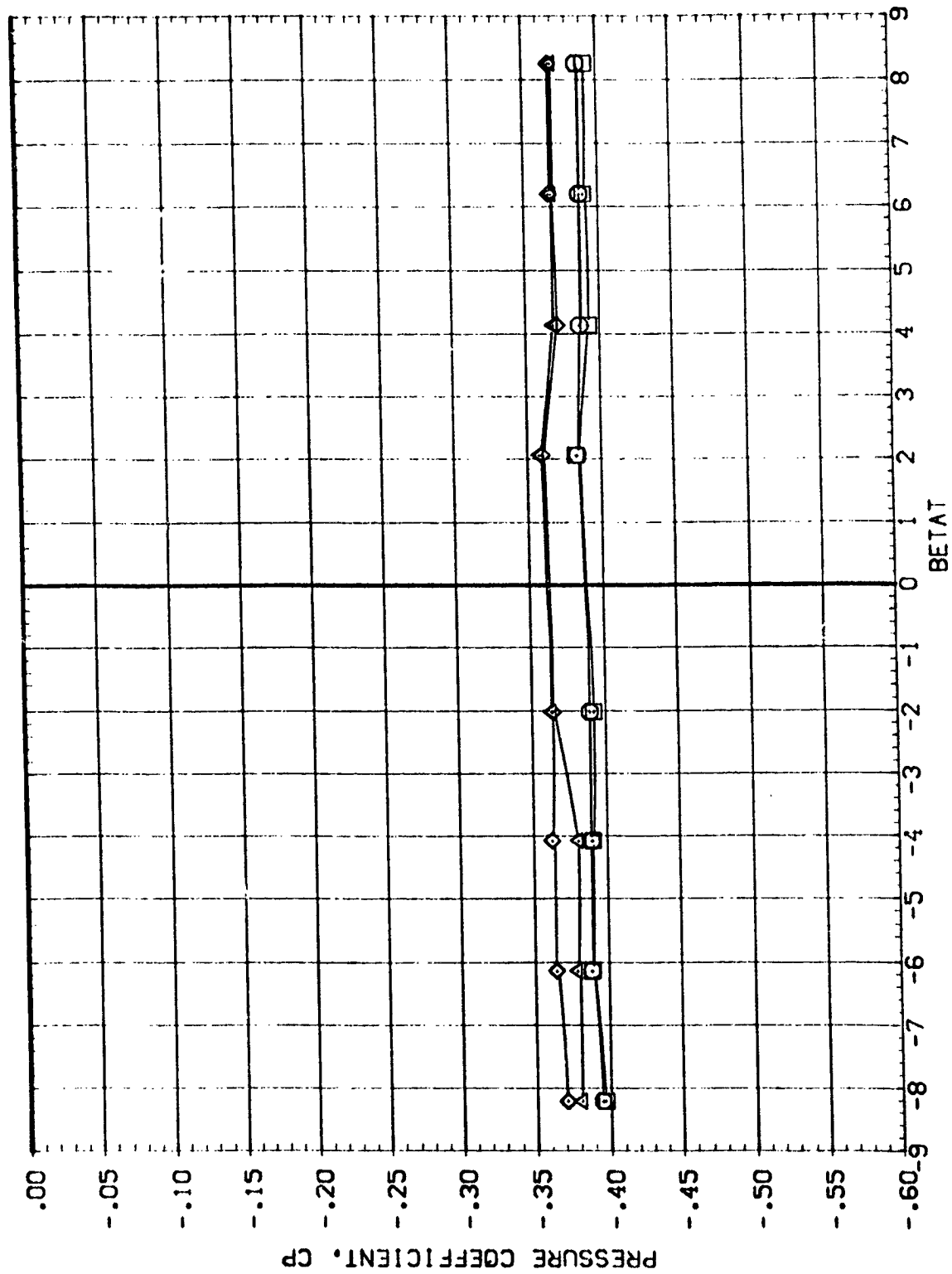
ORBITER BASE PRESSURES



AVES :1-707 1A9 C2A - S3 + 19 CRBITER BASE

(RBMC07)

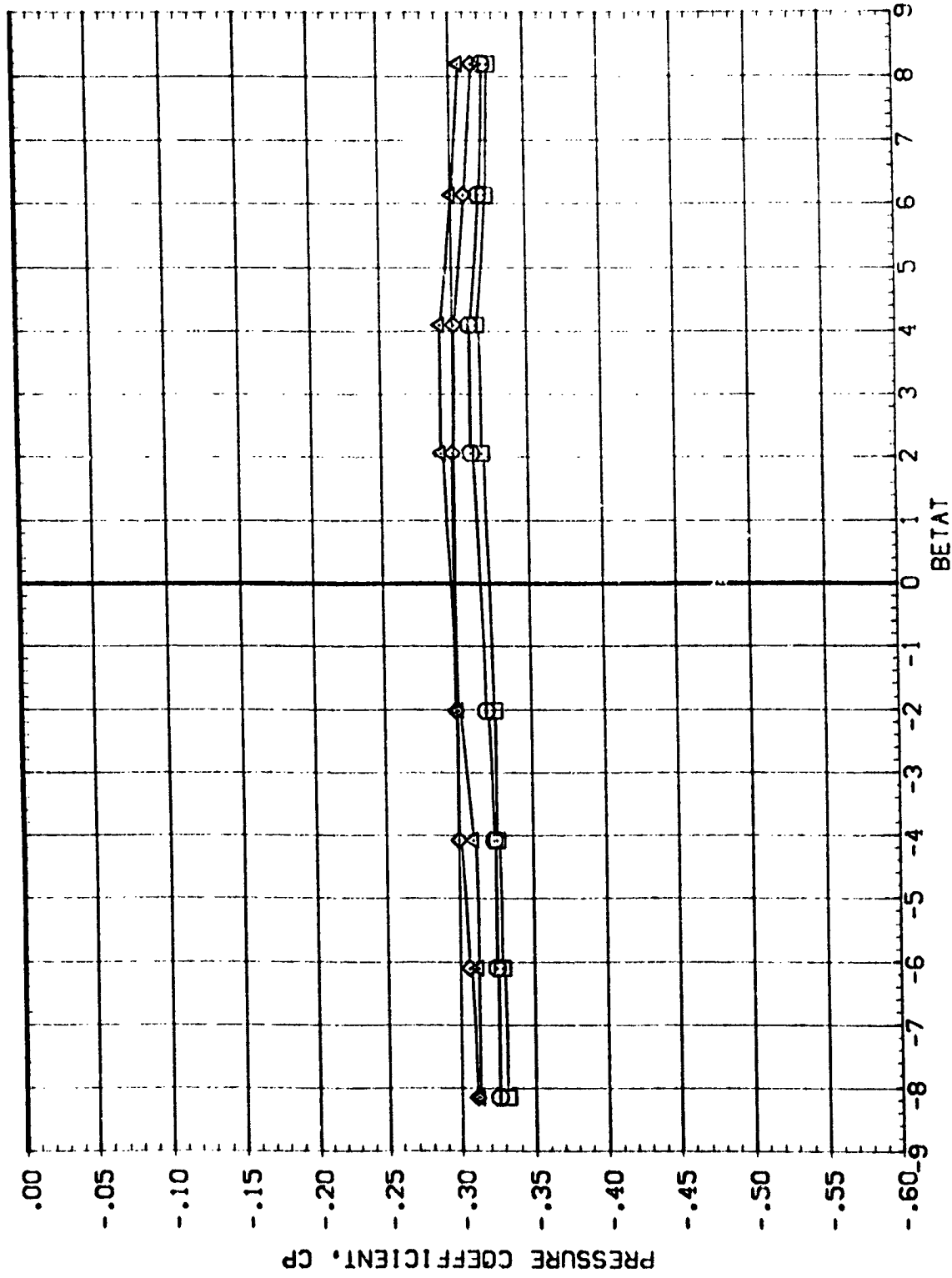
SYNCH		AP NO		WACH		PARAMETRIC VALUES			
1.000	2.000	3.000	4.000	1.000	2.000	ALPHAT	CRBIN	ELEVON	
◇	◇	◇	◇	◇	◇	RODER	.000	.000	.500
◇	◇	◇	◇	◇	◇	ROFLR	.000	.000	.000





AMES 11-707 1A9 02A + S3 + T9 ORBITER BASE (RBM007)

SYNCH	TAP NO	A	MACH	PARAMETRIC VALUES
1.000	1.000	1.249	ALPHAT	.500
2.000	.000		RJODER	.000
3.000			RJOFIR	.000
4.000				.000

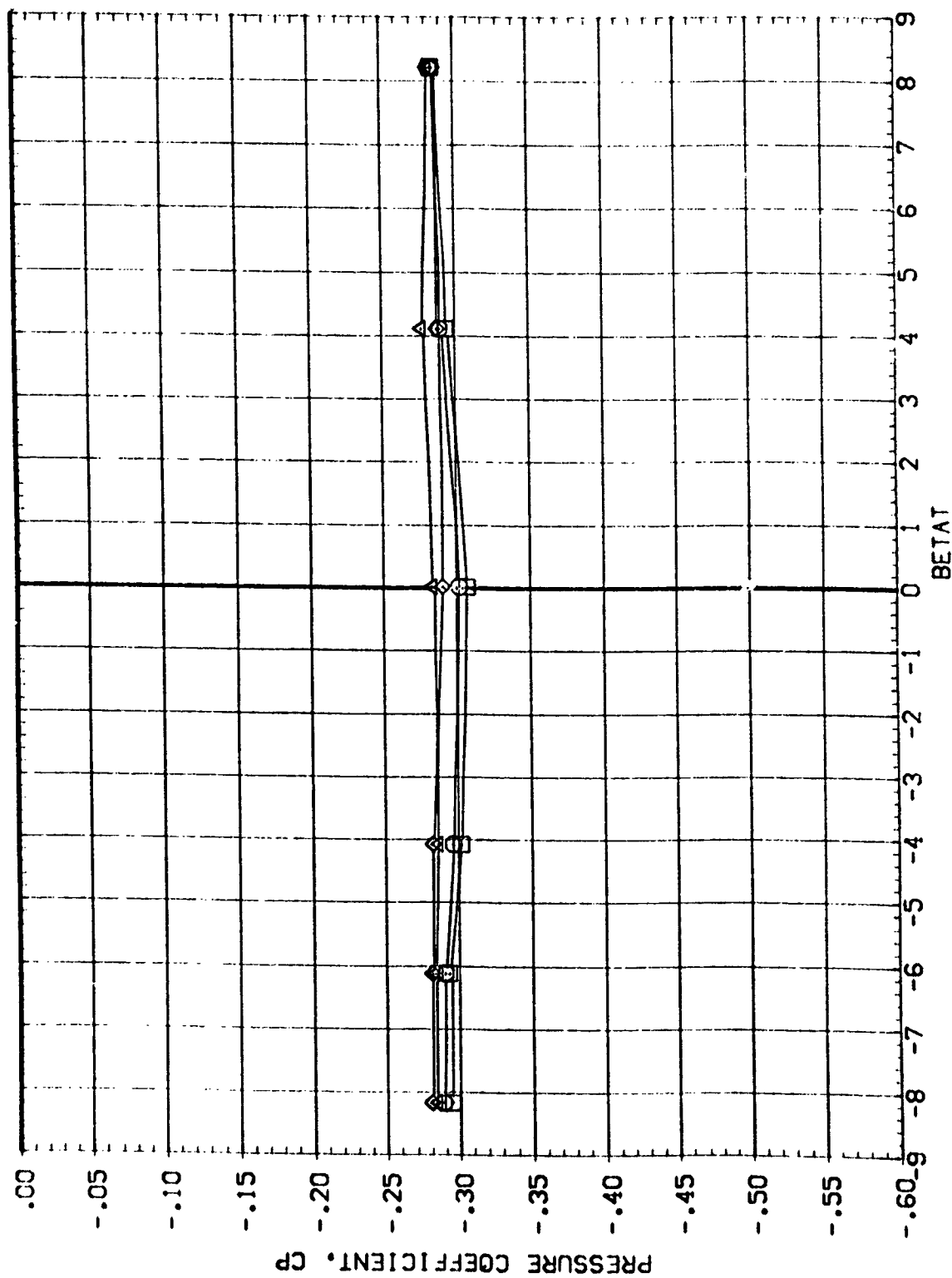


ORBITER BASE PRESSURES

AMES :: -707 1A9 C2A + S3 + T9 CRBITER BASE

ALPHA	.000	CRSING	.500
R000R	.000	ELEVEN	.000
R00FLR	.000		

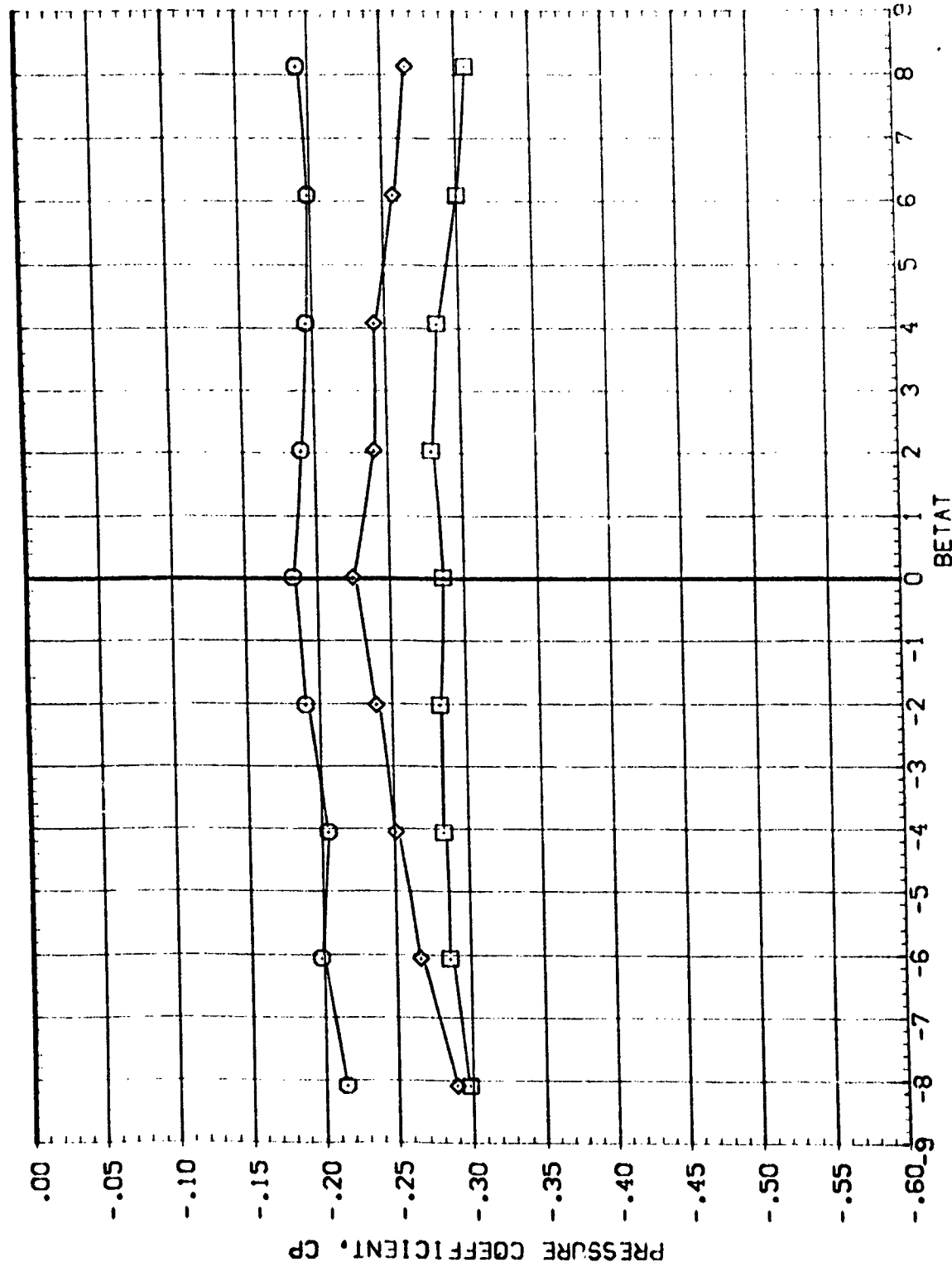
SWITCH	TAP NO	A	MACH
(1.000	.000	1.395
)	2.000		
Δ	3.000		
Δ	4.000		





AVES 11-707 1A9 02A + S3 + T9 ORBITER BASE (RBM007)

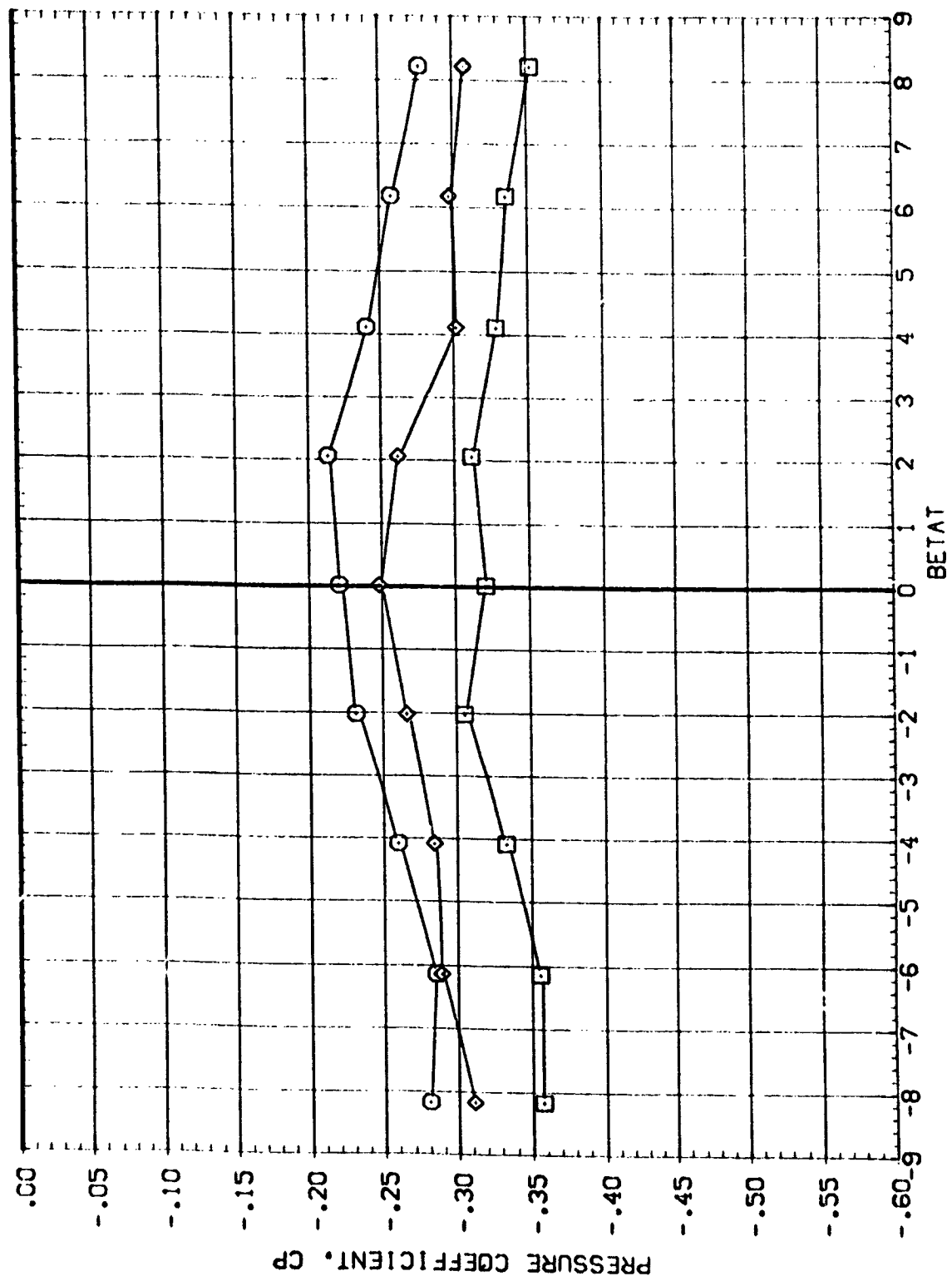
SYMBOL	AP	NC	A	MACH	PARAMETRIC VALUES
○	5.000		.000	.597	ALPHAT
◇	6.000				RUDDER
	8.000				RUDLER
					ORBITING
					ELEVON
					.500
					.000
					.000



ORBITER BASE PRESSURES

AMES :1-707 1A9 02A + S3 + T9 ORBITER BASE (RBMCC7)

SYMBOL	TAP NO	A	MACH	PARAMETRIC VALUES			
	5.000	.000	.900	ALPHA	.000	ORBIT	.500
	6.000	.000	.900	RUDDER	.000	ELEVON	.000
	8.000	.000	.900	RUDDER	.000	ELEVON	.000

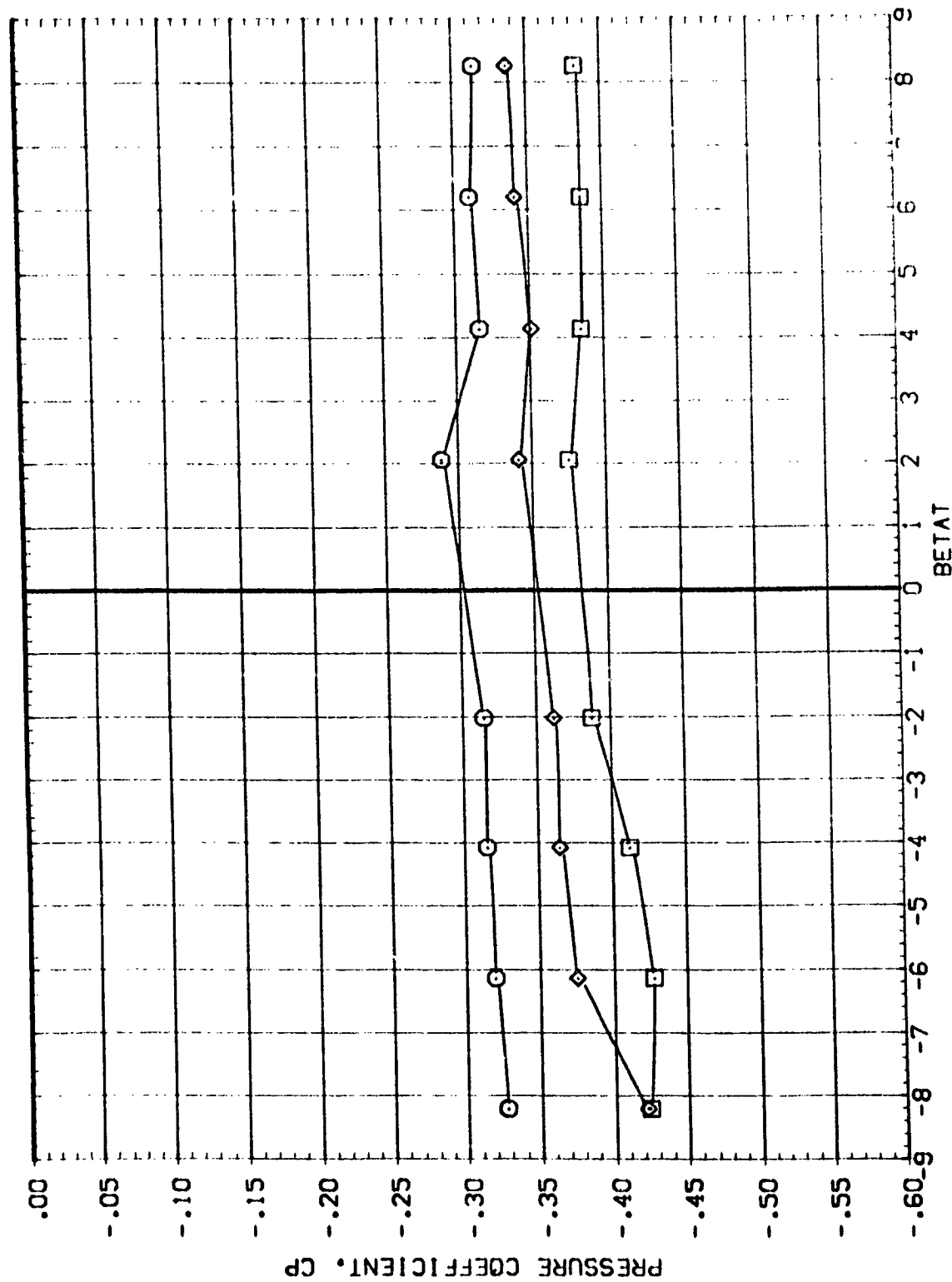




AMES 11-707 :A9 C2A + S3 + T9 ORBITER BASE

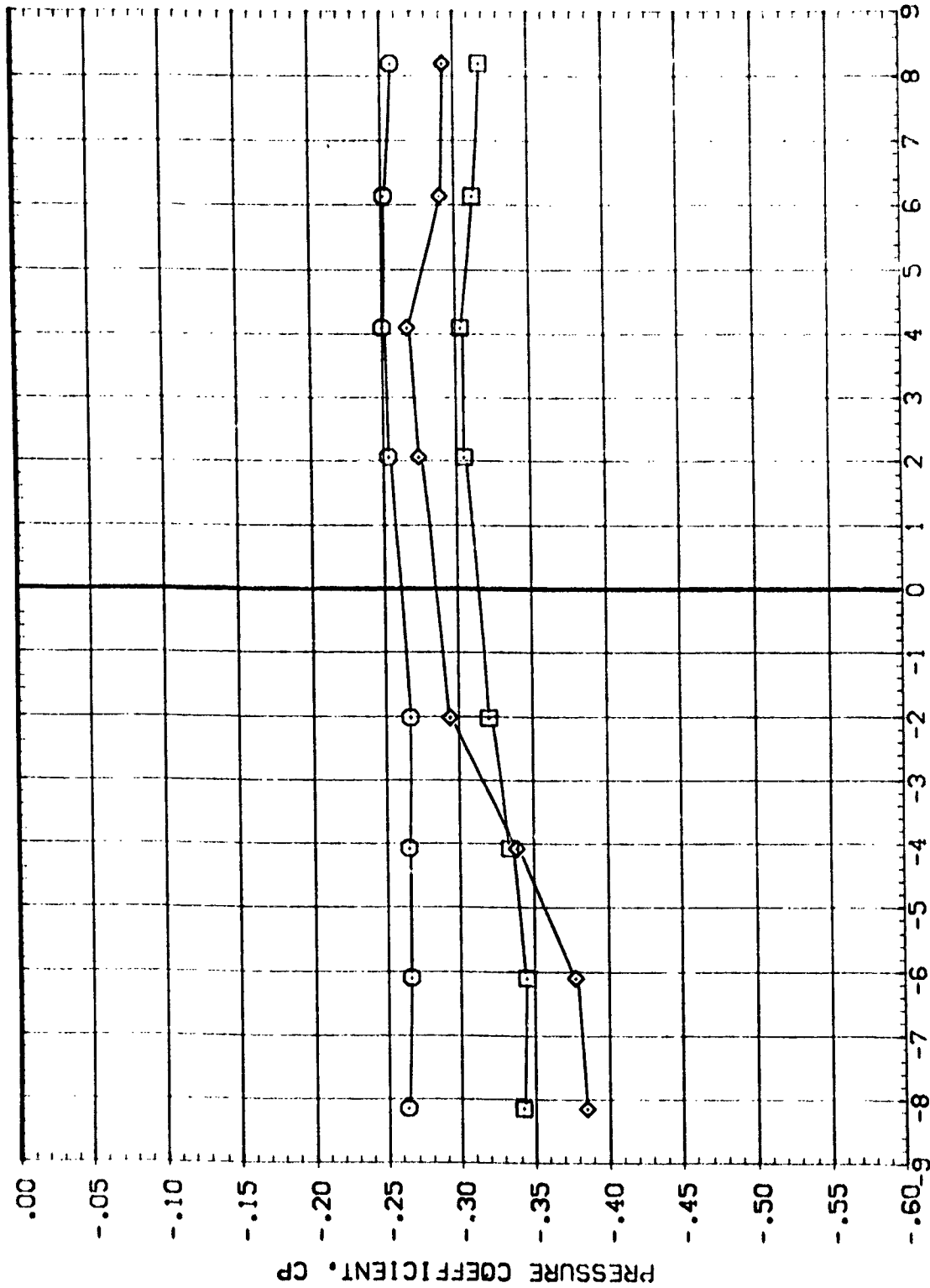
(RBMCC07)

SYMBOL	TAP NO	A	MACH	PARAMETRIC VALUES
○	5.000	.000	1.100	ALPHA°
◇	6.000	.000	1.100	RUDDER
	8.000	.000	1.100	RUDDER
				ELEVON
				.500
				.000



AVES :: -707 :A9 02A + S3 + T9 ORBITER BASE (RBMC07)

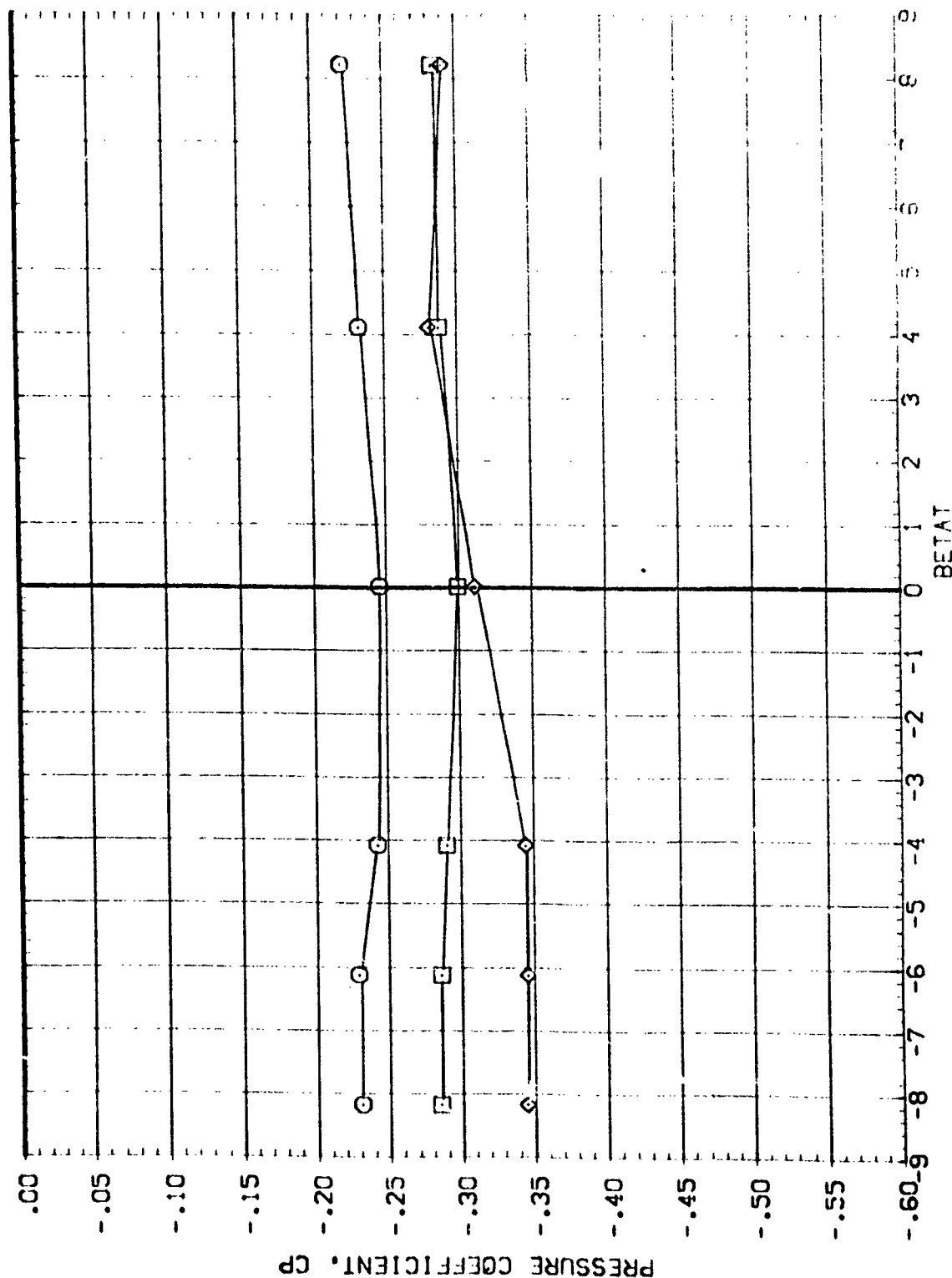
SYMBOL	TAP NO	A	MACH	PARAMETRIC VALUES			
				ALPHA	ORBITING		
				RUDDER	ELEVON		
				RUDDER	ELEVON		
◇	5.000	.000	1.249	.000	.000	.500	
◇	6.000	.000		.000	.000	.000	
◇	8.000	.000		.000	.000	.000	





ANES ::-707 IA9 C2A + S3 + T9 ORBITER BASE (RBMC07)

SYSC	AP NC	A	MACH	PARAMETRIC VALUES
0.00	5.000	.000	1.395	ALPHA
0.00	6.000	.000		RLODR
0.00	8.000	.000		RDFLR
				ORBIT
				ELEV
				REFL



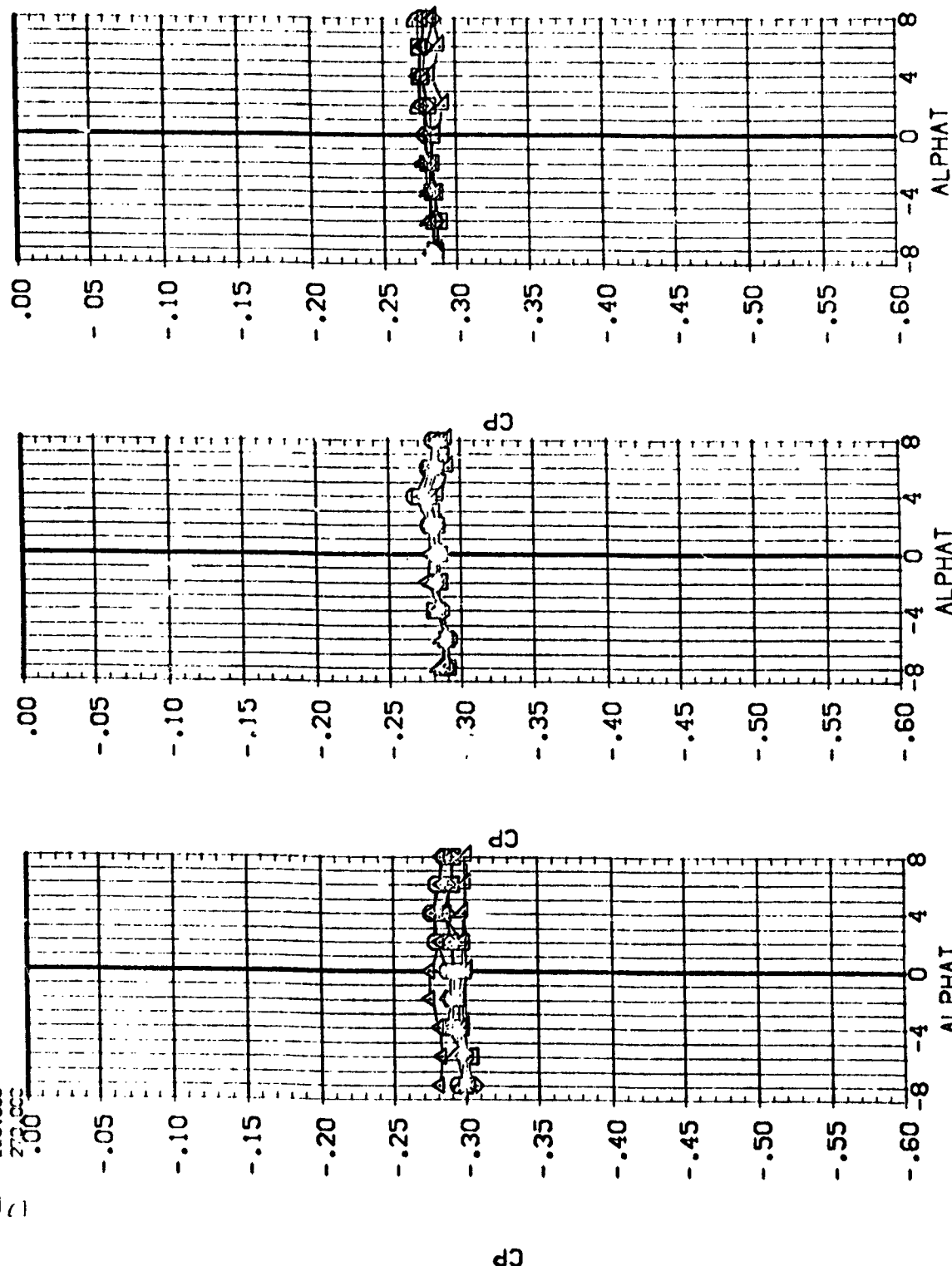
ORBITER BASE PRESSURES



AVES 11-707 1A9 02A - S3 - T9 UPPER MPS NOZZLE (RBMD02)

PARAMETRIC VALUES
BETA .000 CRBINC .500
RUDDER .000 ELEVON .000
RUFLR .000

SYNCH
X/L NO MACH
.000 .250 .598
90.000 .500
135.000 .750
180.000
225.000
270.000

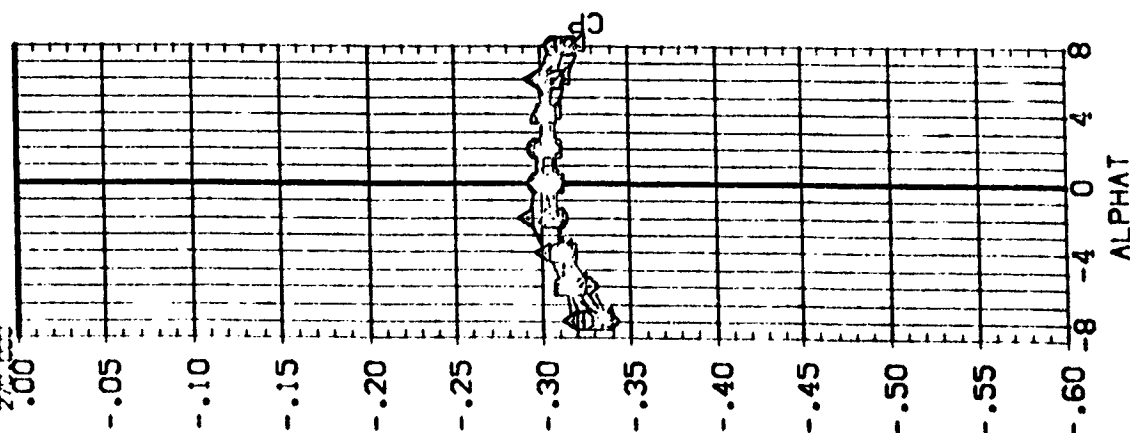
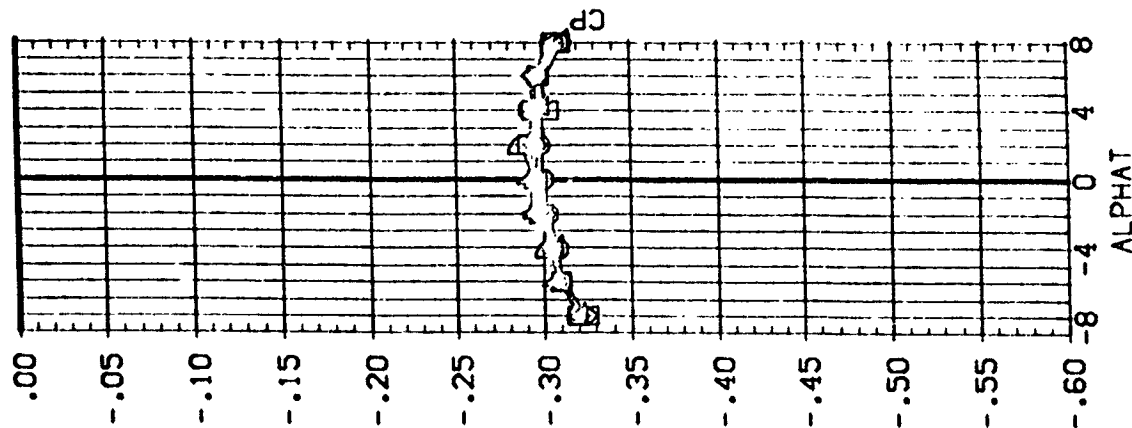
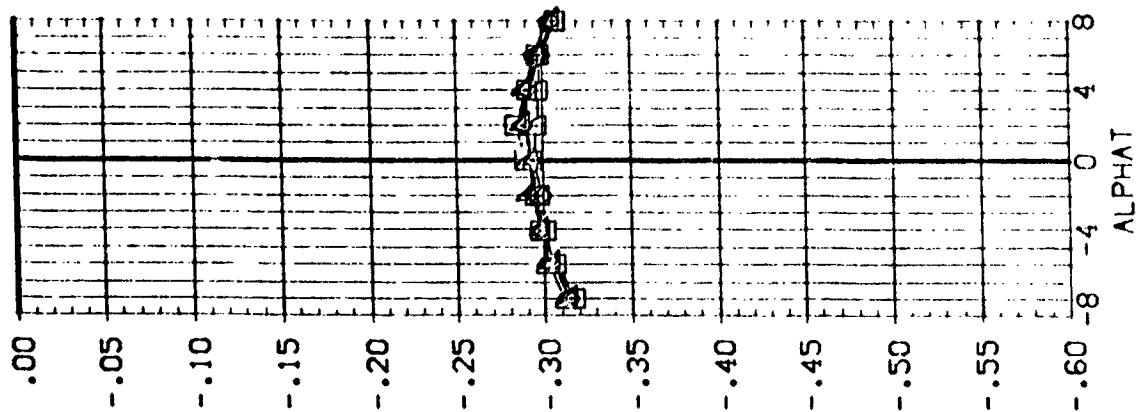


UPPER MPS NOZZLE PRESSURES

AVES : 1-707 : A9 02A + S3 + T9 UPPER MPS NOZZLE (RBM002)

PARAMETRIC VALUES	
BETAT	.000
RUDDR	.000
RJFLR	.000
	.500
	.000

SYMBOL	BT	X/LN	MACH
□	.000	.250	.903
□	.000	.500	
◇	.350	.750	

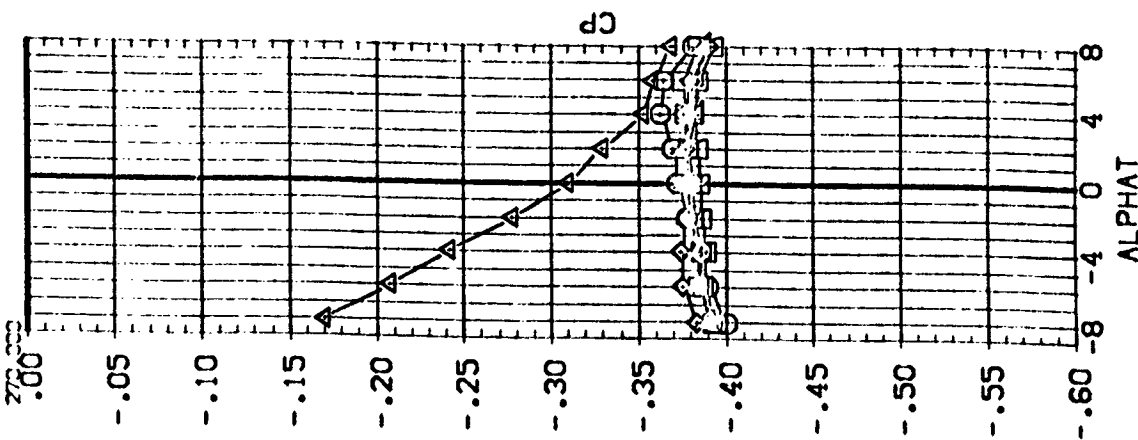
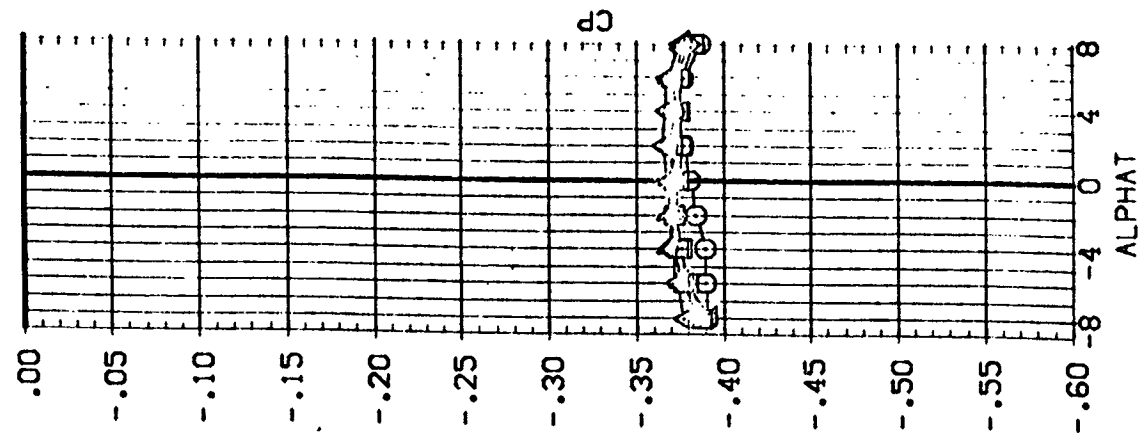
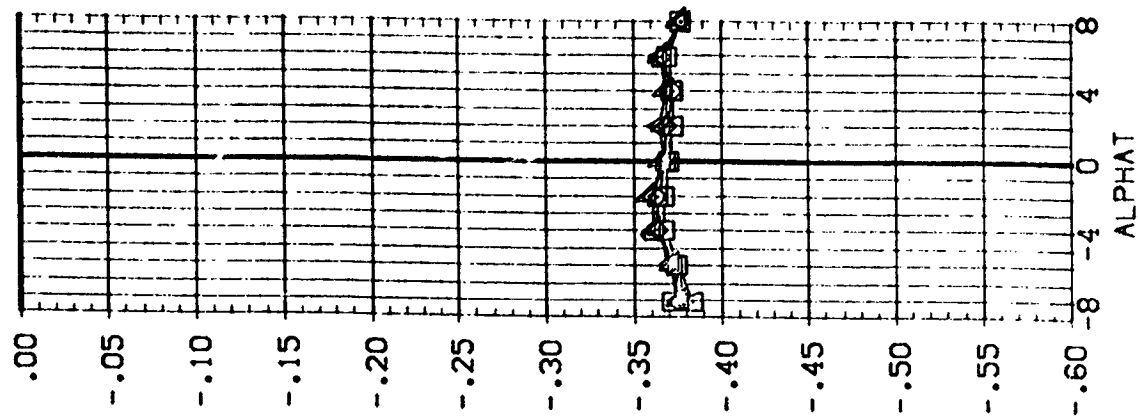


UPPER MPS NOZZLE PRESSURES

AVES 11-707 1A9 32A + S3 + T9 UPPER MPS NOZZLE (RBM002)

PARAMETRIC VALUES
 BETAT .000 ORBINC .500
 RUDDER .000 ELEVON .000
 RUDELR .000

SYMBOL P-1 X/LNP MACH
 .000 .250 1.102
 90.000 .500
 135.000 .750
 180.000
 225.000
 270.000

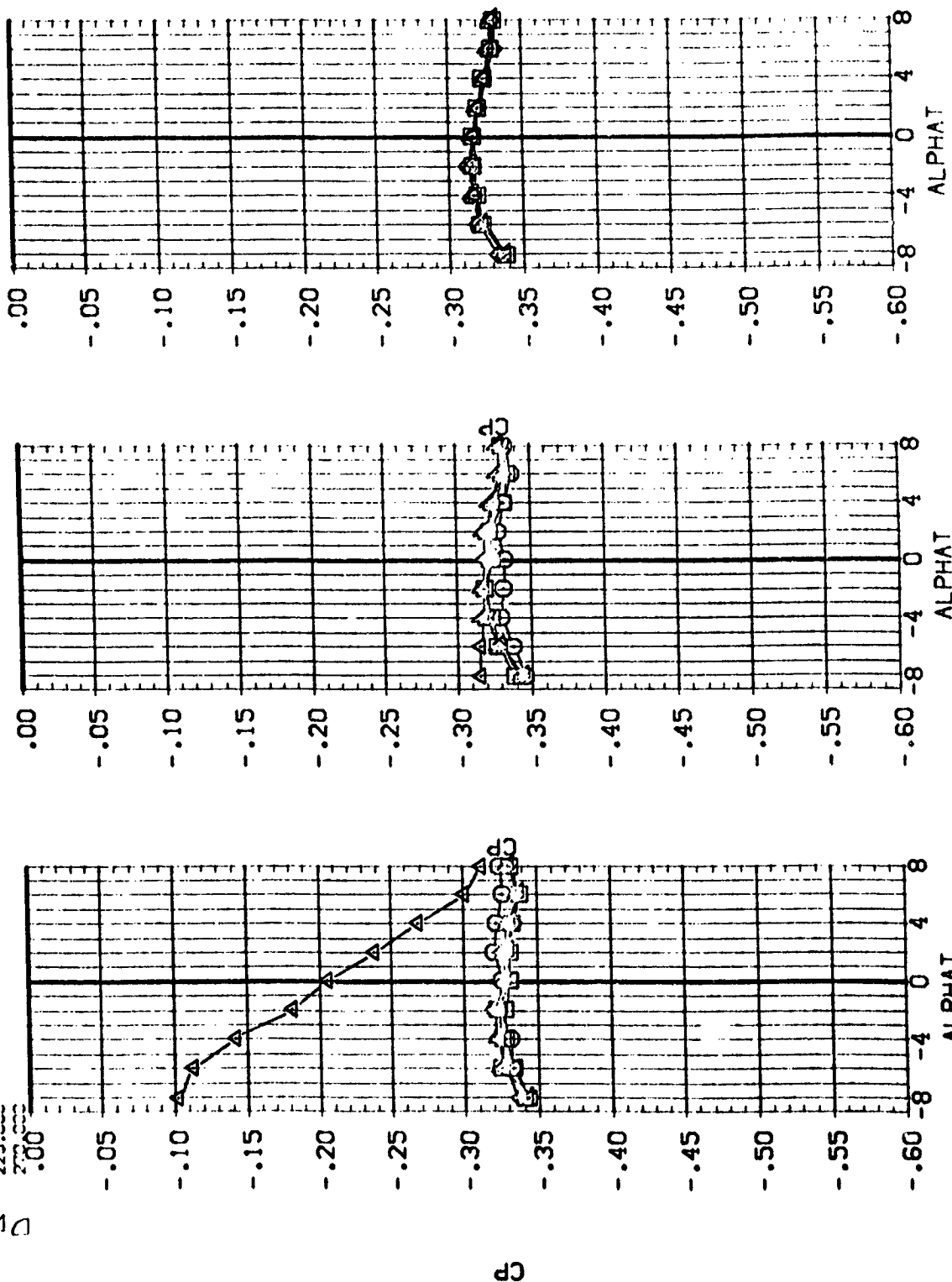




AVES : -707 1A9 C2A + S3 + T9 UPPER MPS NOZZLE (RBMD02)

PARAMETRIC VALUES
BETAT .000 ORBINC .500
RUDDER .000 ELEVON .000
RUDDER .000

SYMBOL X/NP WACH
000000 .250 1.249
90.000 .500
135.000 .750
180.000
225.000
270.000

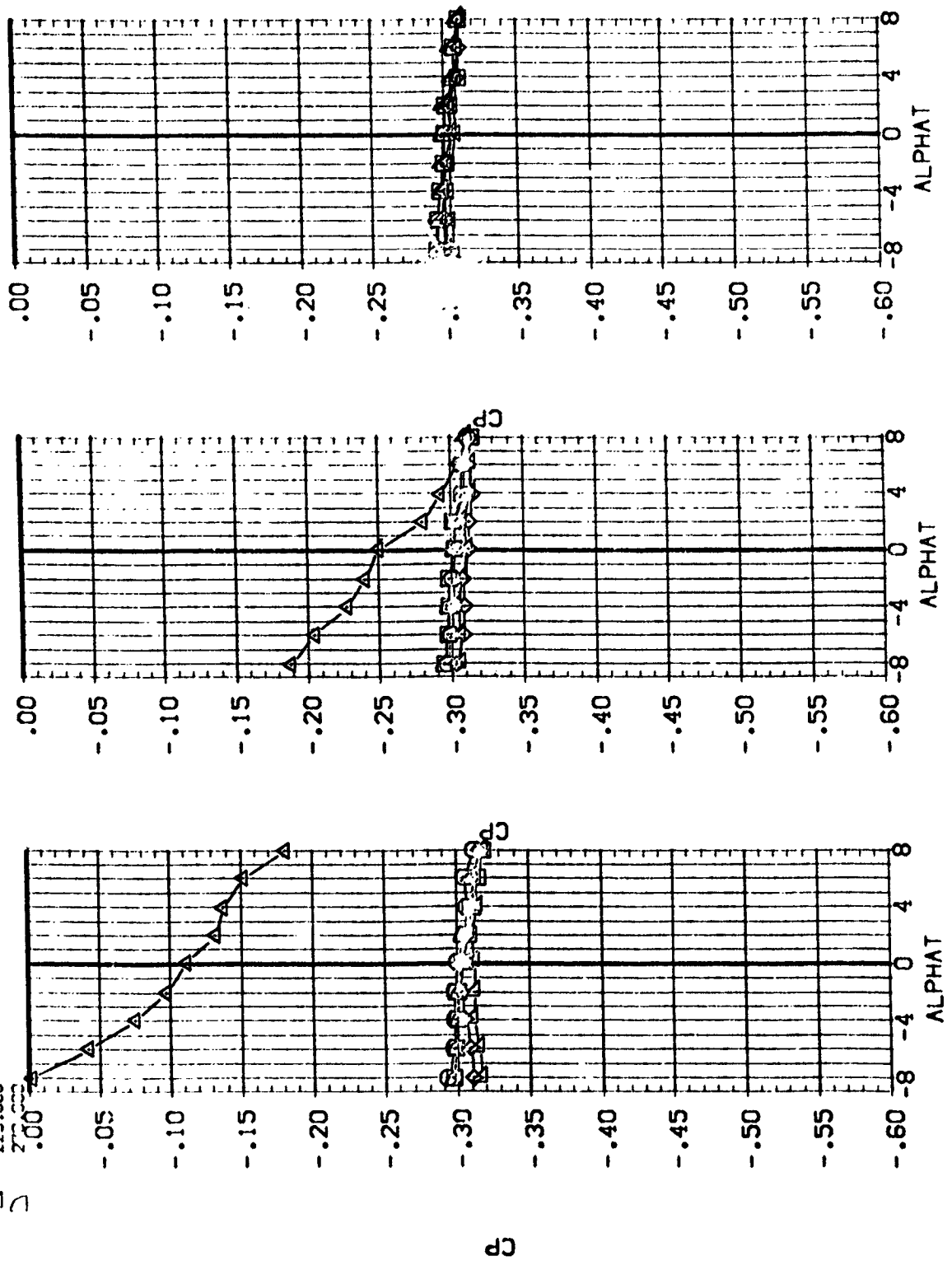


UPPER MPS NOZZLE PRESSURES

AMES 11-707 1A9 02A + S3 + T9 UPPER MPS NOZZLE (RBMD02)

PARAMETRIC VALUES
 BETAT .000 ORBINC .500
 RUDDER .000 ELEVON .000
 RUDELR .000

SYNOPSIS
 0010442
 000 .200
 90 .250
 135 .500
 180 .750
 225 1.401
 270 1.401



UPPER MPS NOZZLE PRESSURES

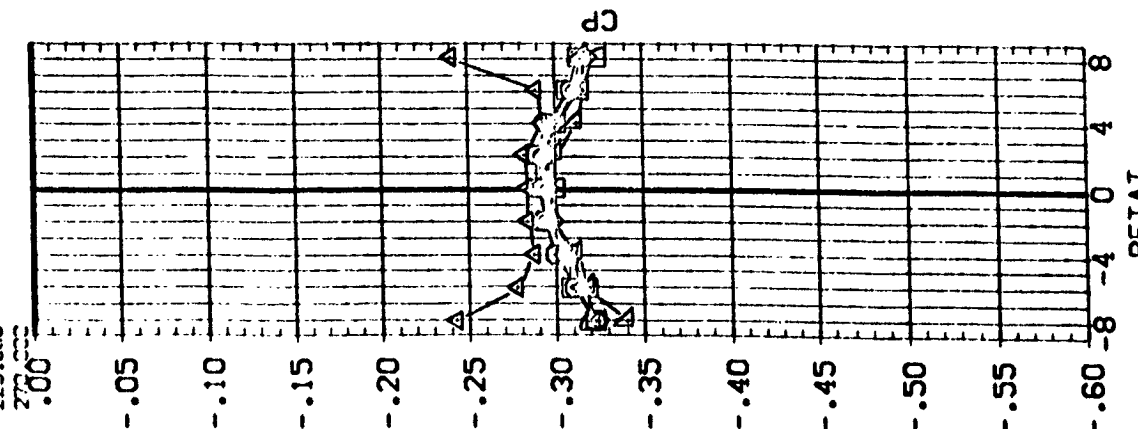
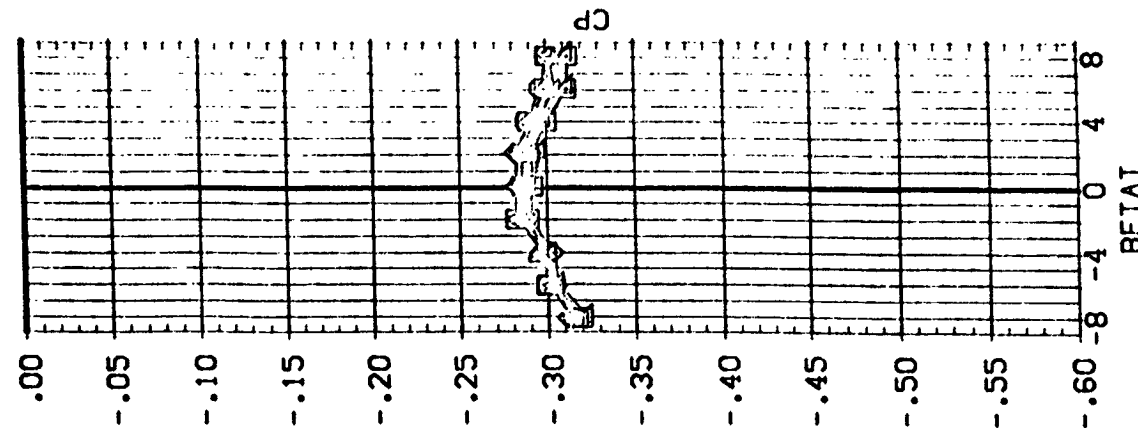
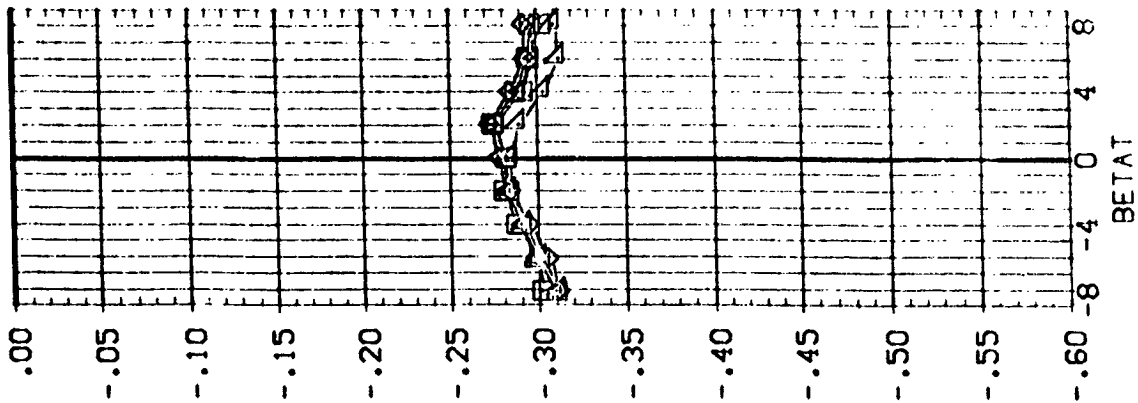


AVES : 1-707 1A9 C2A + S3 + T9 UPPER MPS NOZZLE (RBMD07)

PARAMETRIC VALUES
 ALPHAT .000 CRBINC .500
 RUDDER .000 ELEVEN .000
 RUDDER .000

SYMBOL
 0 1 2 3 4 5 6 7 8 9
 10 11 12 13 14 15 16 17 18 19
 20 21 22 23 24 25 26 27 28 29
 30 31 32 33 34 35 36 37 38 39
 40 41 42 43 44 45 46 47 48 49
 50 51 52 53 54 55 56 57 58 59
 60 61 62 63 64 65 66 67 68 69
 70 71 72 73 74 75 76 77 78 79
 80 81 82 83 84 85 86 87 88 89
 90 91 92 93 94 95 96 97 98 99

PAI X/L NP MACH
 .000 .250 .597
 50.000 .500
 135.000 .750
 160.000
 225.000
 270.000



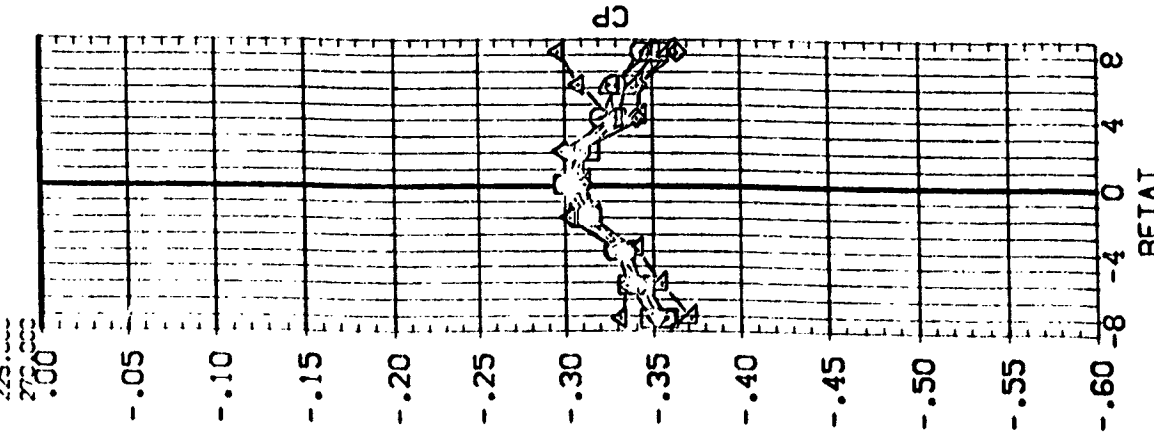
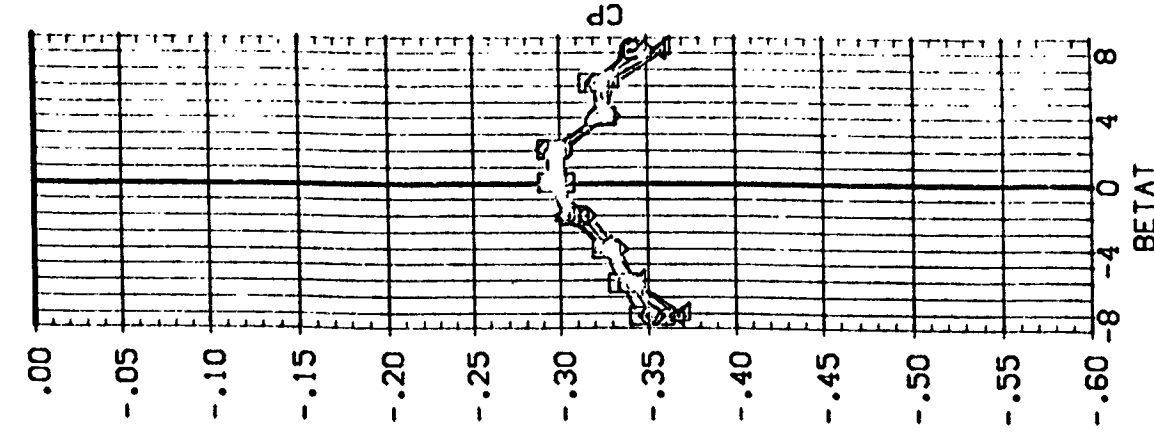
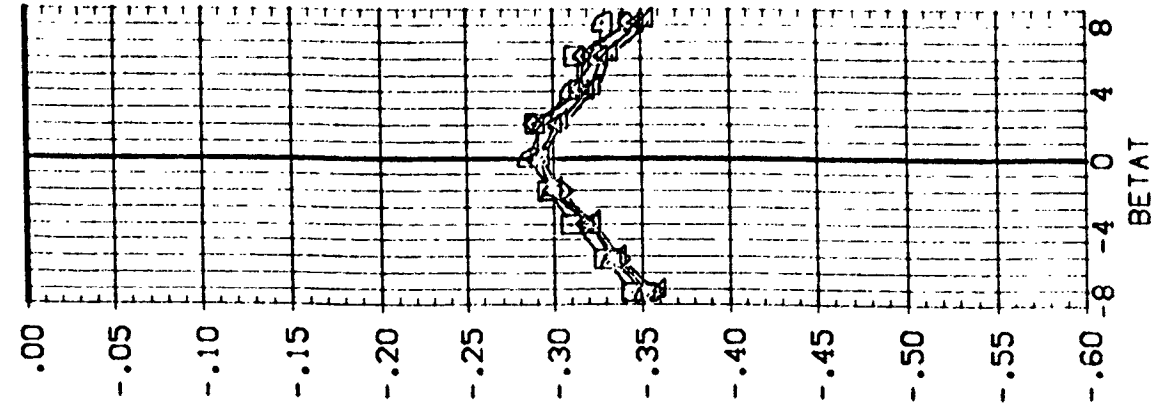
UPPER MPS NOZZLE PRESSURES

AVES 1:-707 :A9 02A + S3 + T9 UPPER MPS NOZZLE (RBMD007)

PARAMETRIC VALUES
 ALPHAT .000 ORB:NC .500
 RUDDER .000 ELEVON .000
 RUDDFLR .000

SVAGC
 010477
 90.000
 135.000
 180.000
 225.000
 270.000

MACH
 .250
 .500
 .750
 .900

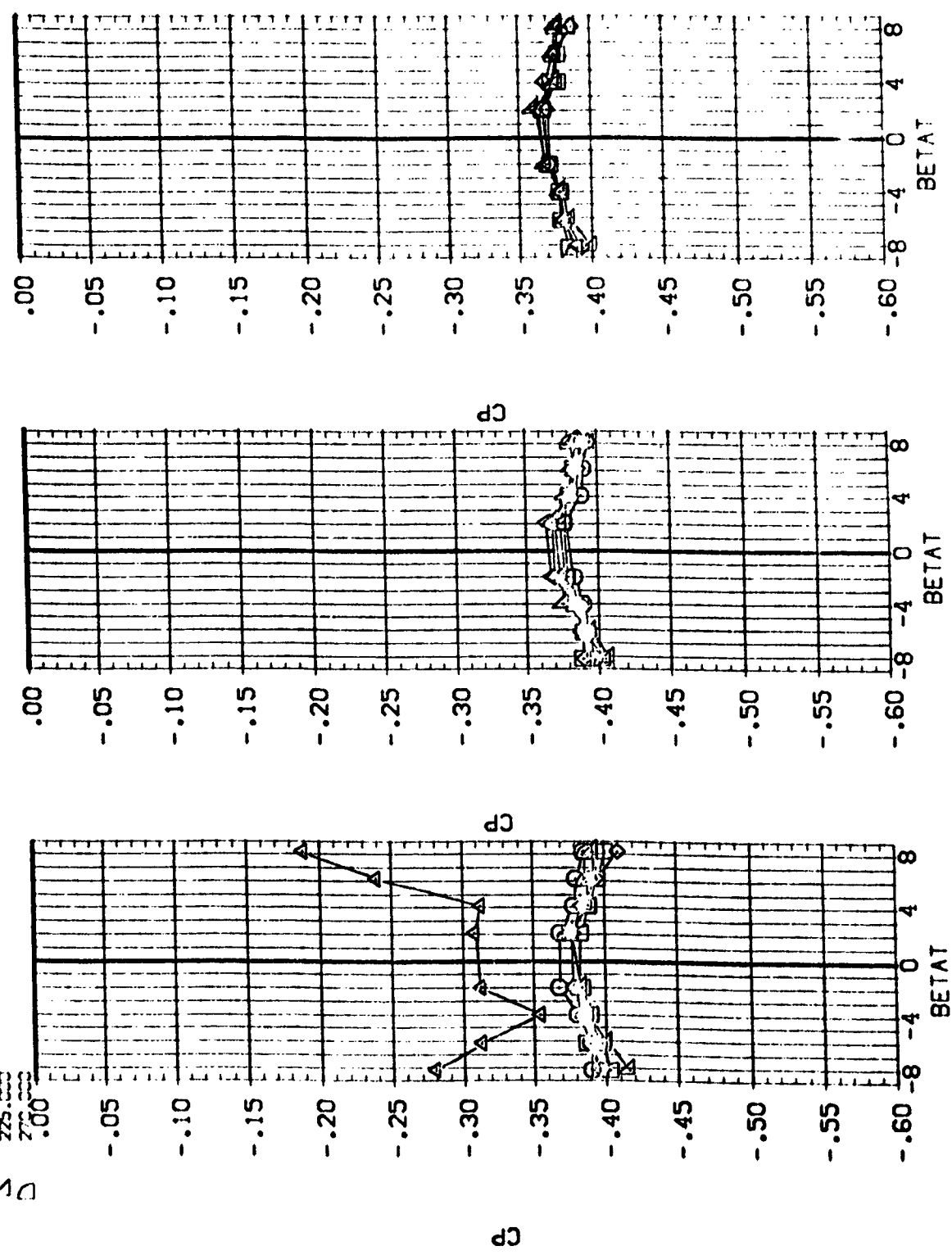




AMES 1:-707 1A9 C2A + S3 + T9 UPPER MPS NOZZLE (RBMD007)

PARAMETRIC VALUES
 ALPHAT .000 ORBINC .500
 RUDDER .000 ELEVON .000
 RUOFLR .000

SYMBOL
 P-1 .000 MACH 1.100
 90.000 .250
 135.000 .500
 180.000 .750
 225.000
 270.000



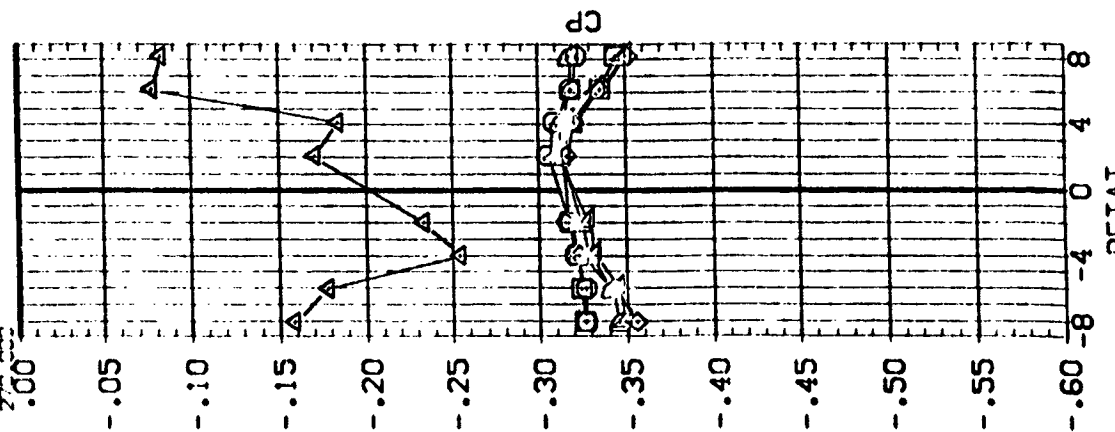
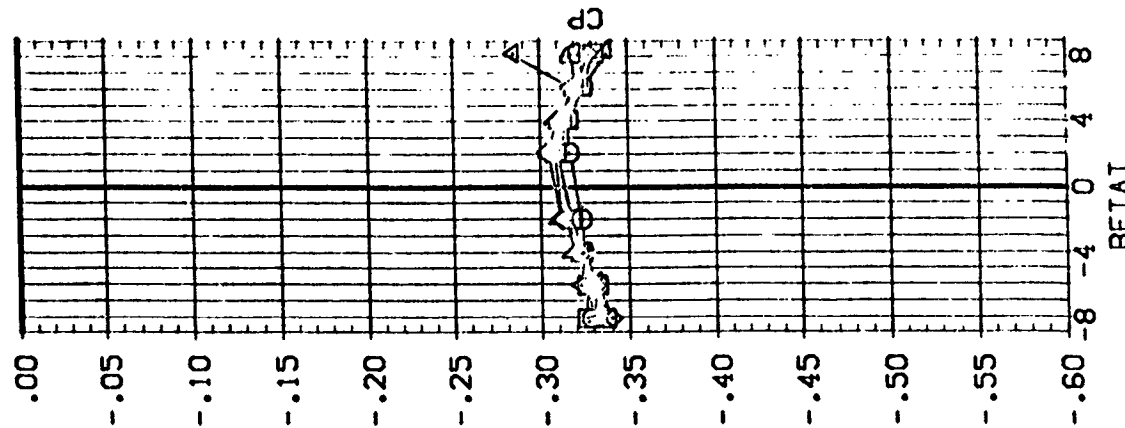
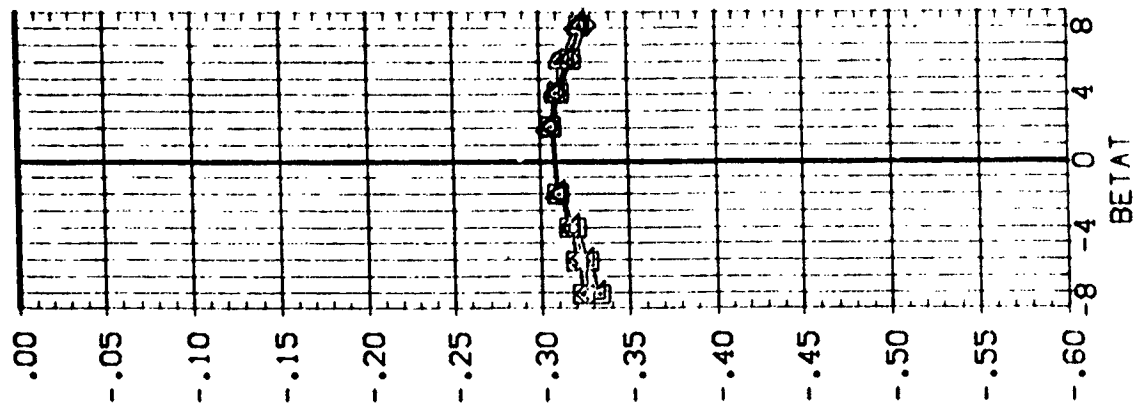
UPPER MPS NOZZLE PRESSURES



AVES :: -707 1A9 C2A + S3 + T9 UPPER MPS NOZZLE (RBMD07)

PARAMETRIC VALUES
ALPHAT .000 CRBINC .500
RDOER .000 ELEVON .000
RDOFLR .000

SM9C-
D-1
X/LNP .250
MACH 1.249
90.000
135.000
180.000
225.000
270.000



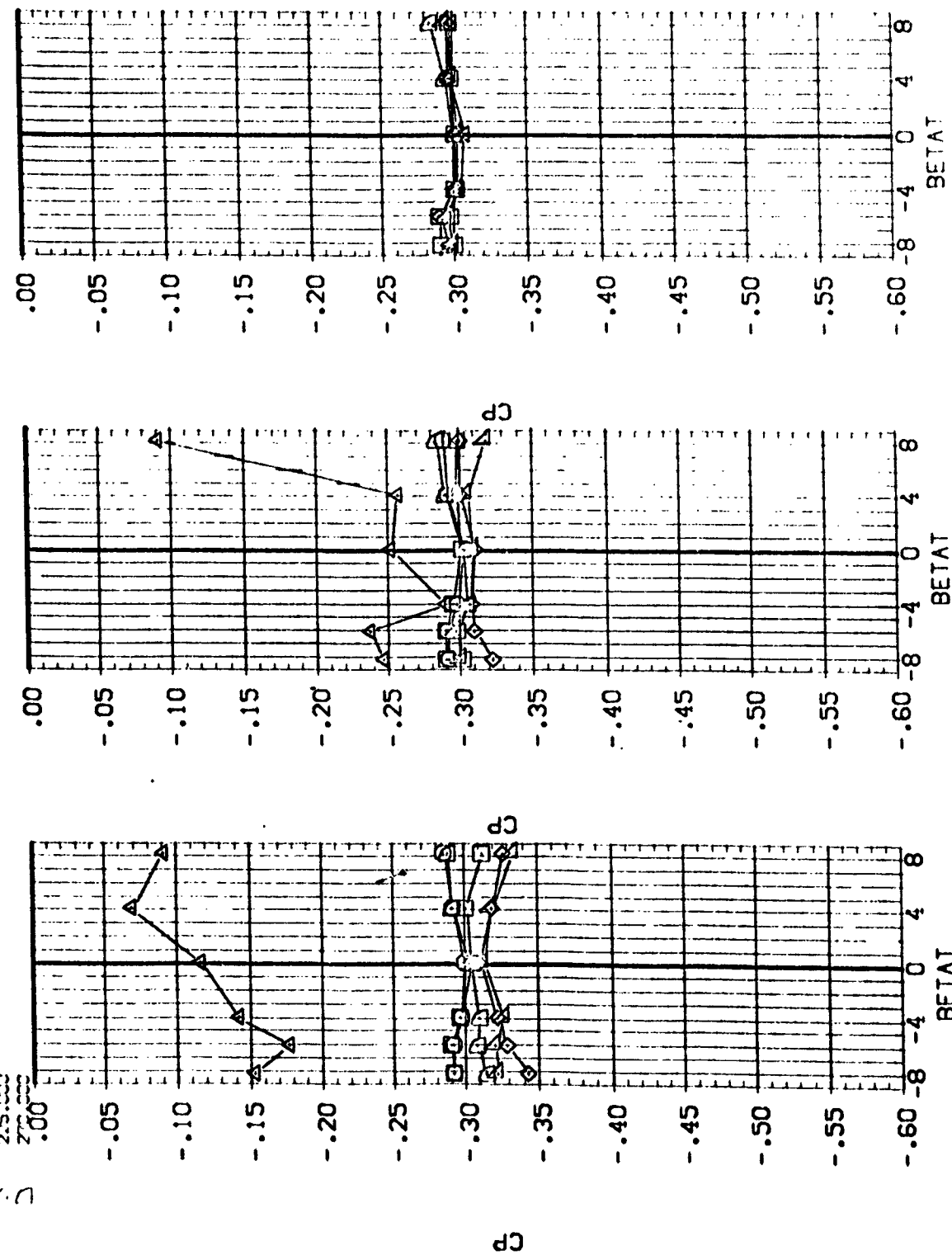
CS



AMES 11-707 1A9 C2A + S3 + T9 UPPER MPS NOZZLE (RBMD07)

PARAMETRIC VALUES
 ALPHAT .000 ORBITAL .500
 RUDDER .000 ELEVON .000
 RUDDER .000

SYMBOL
 0 1 2 3 4 5 6 7 8 9
 0.000 .250 .500 .750 .900 .950 .990 .995 .999 .999

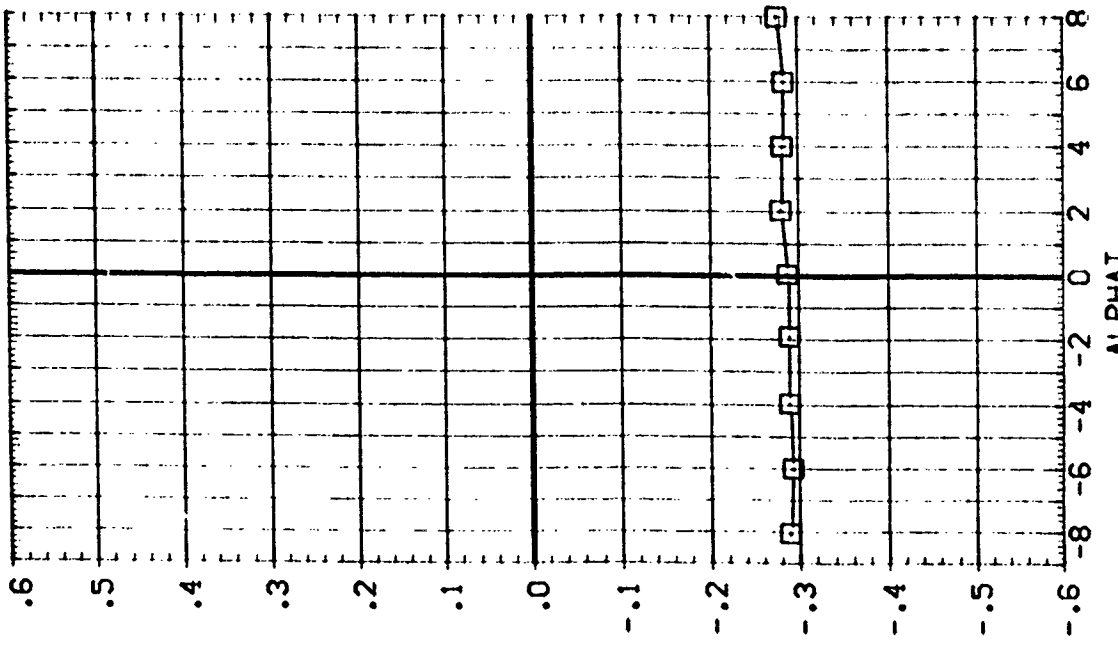
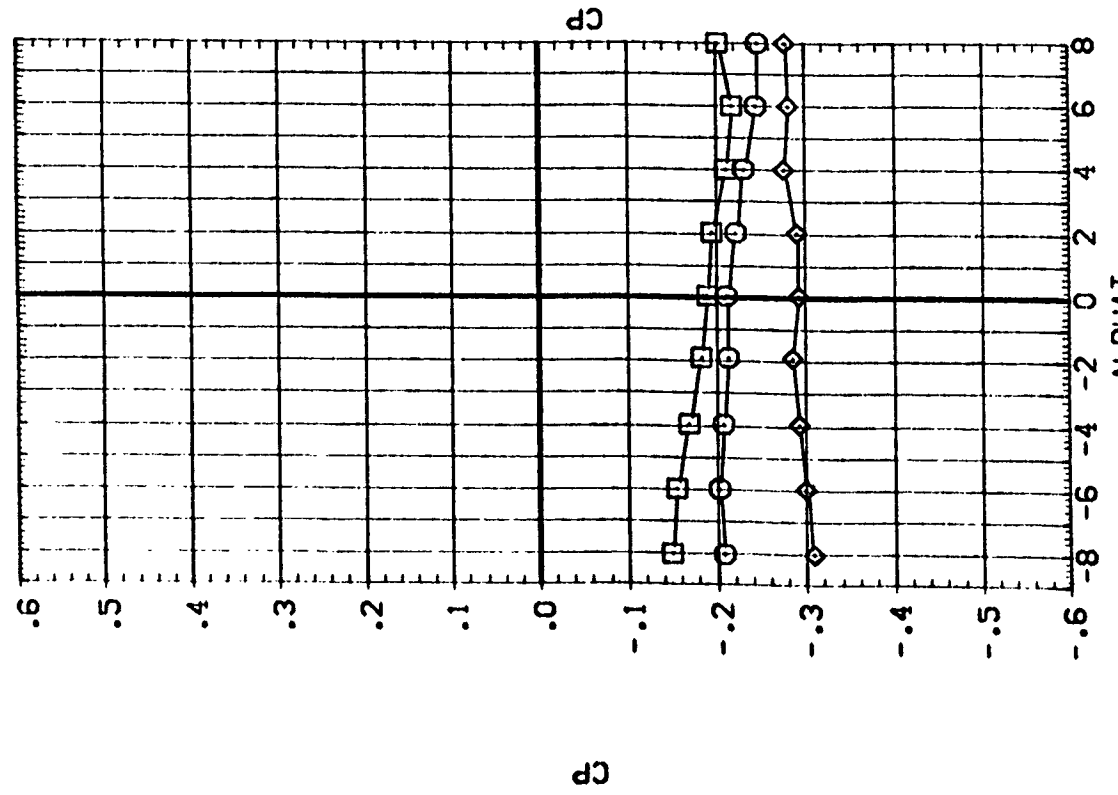




AVES 11-707 1A9 02A + S3 + T9 0MS NOZZLE

(RBME02)

SVNGC-	PA-1	X/LIN	MACH	PARAMETRIC VALUES			
010	135.000	.200	.598	BETAT	.000	OSB:VC	.500
010	180.000	.400		RUDDER	.000	ELEVON	.000
010	225.000			RJFLR	.000		

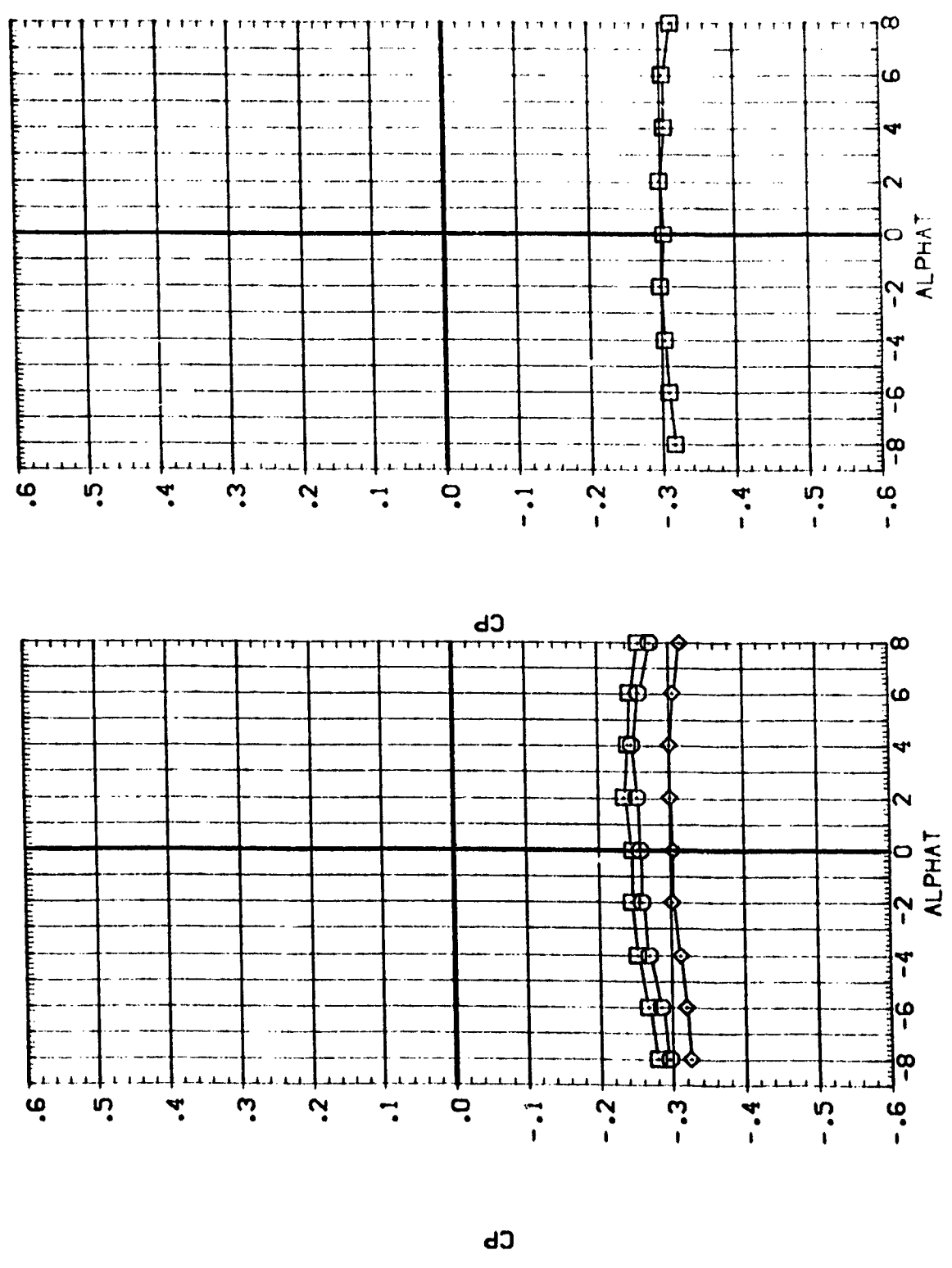




AVES 11-707 1A9 C2A + S3 + T9 3MS NOZZLE

(RBME02)

SYMB	PHI	X/LIN	MACH	BETAT	RJODER	RJOFLE	ORBITC	ELEVON
195.000	.200	.400	.903	.000	.000	.000	.000	.000
180.000								
225.000								



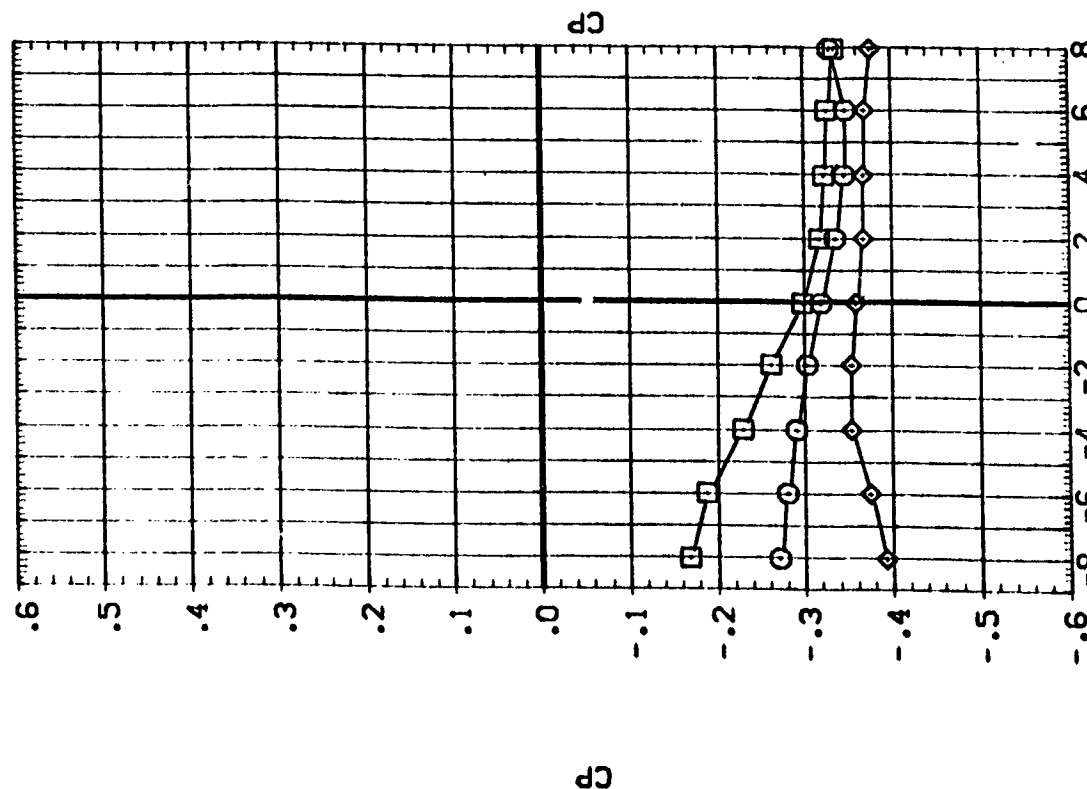
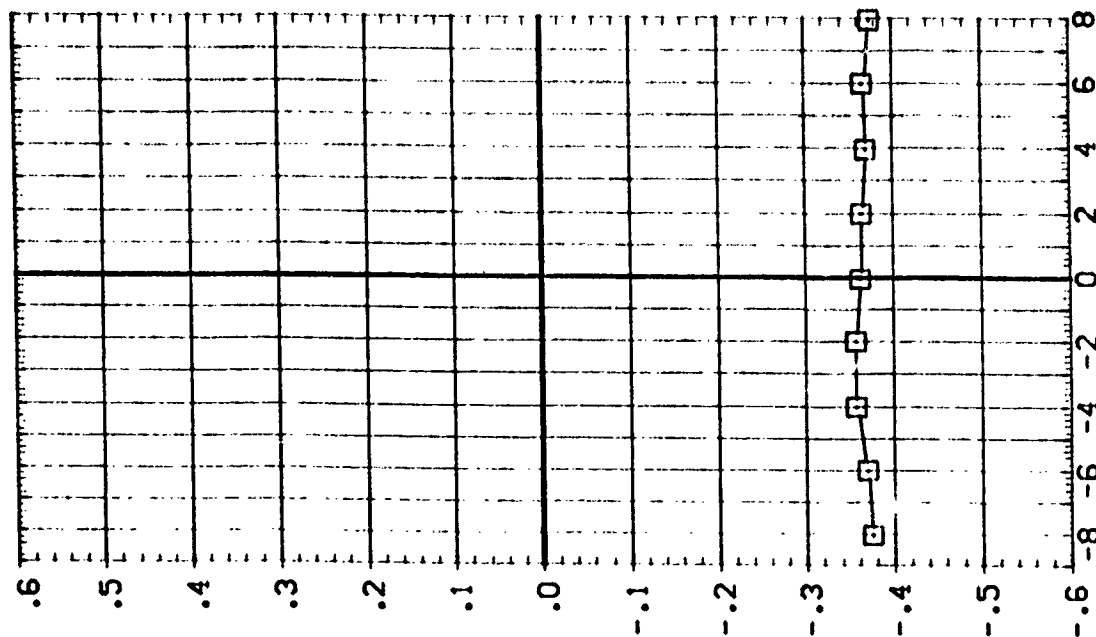
AVES 11-707 1A9 02A + S3 + T9 QMS NOZZLE

(RBMEC2)

PARAMETRIC VALUES
 BETAT .000 CRBINC .500
 RUDDER .000 ELEVON .000
 RUFLR .000

SVBC: PH: X/LN WACH
 135.000 .200 1.102
 180.000 .400
 225.000

○ □ ◇

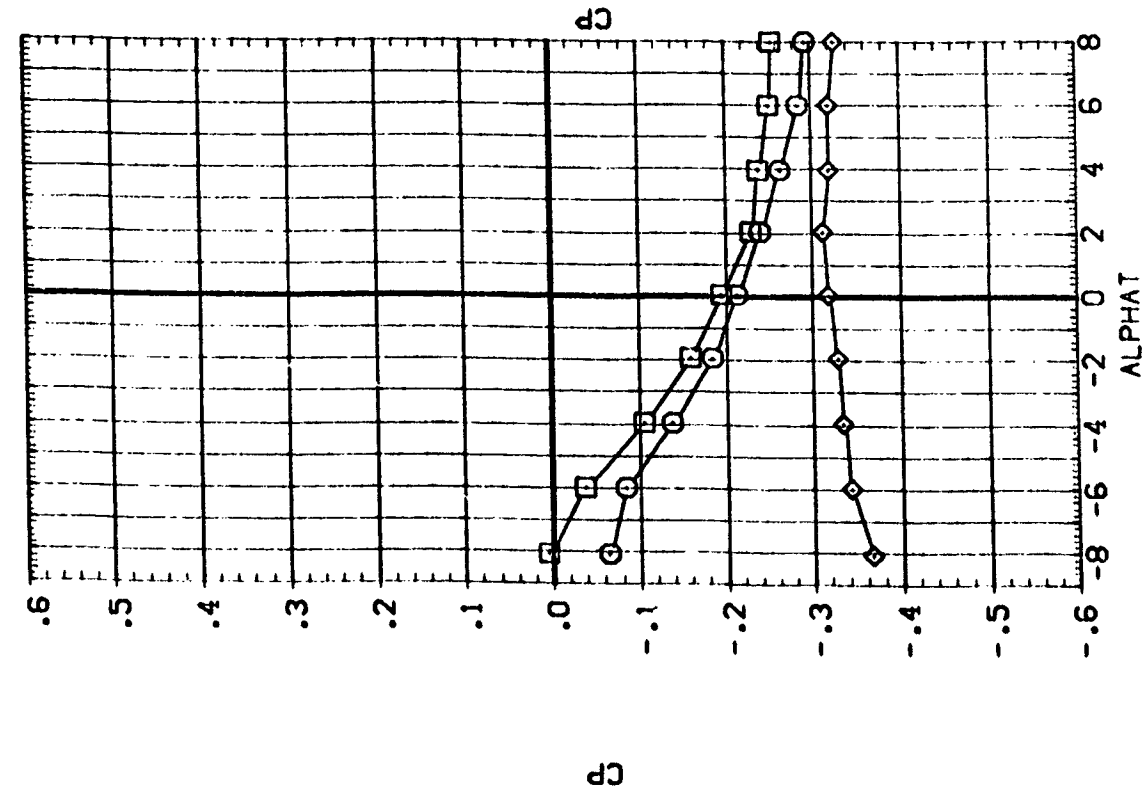
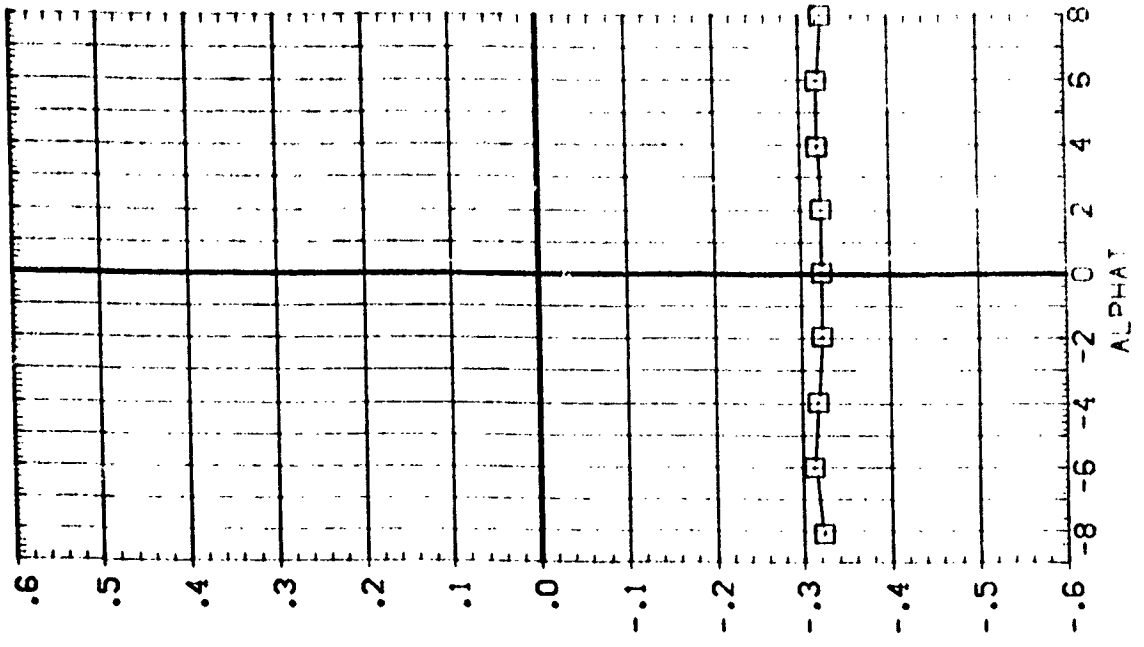




AMES 11-707 :A9 C2A + S3 + T9 QMS NOZZLE

(RBME02)

SYMBOL	PHI	X/LN	MACH	PARAMETRIC VALUES		
○	.35.000	.200	1.249	BETA	ORBIT	.500
□	.80.000	.400		RUDDER	ELEV	.000
◇	.25.000			RJFLR		.000



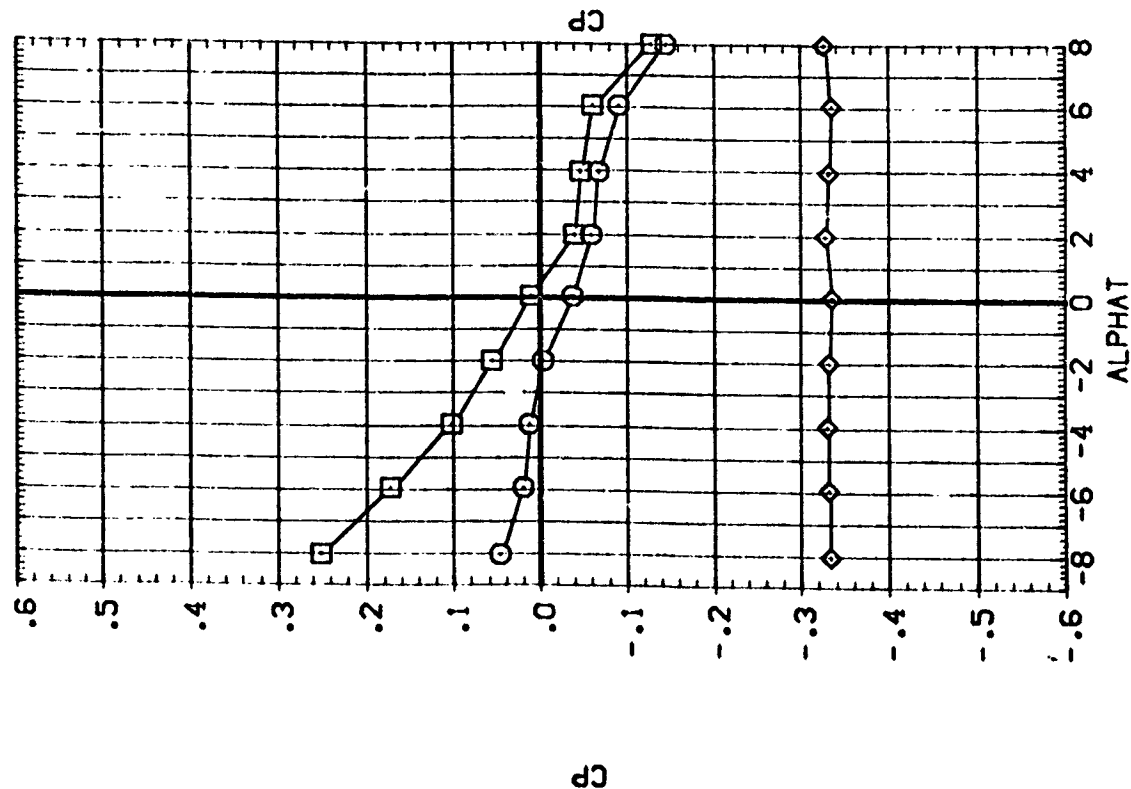
AMES 11-707 1A9 02A + S3 + 79 QMS NOZZLE

(R3MEC2)

SYMBOL	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15	Q16	Q17	Q18	Q19	Q20	Q21	Q22	Q23	Q24	Q25	Q26	Q27	Q28	Q29	Q30	Q31	Q32	Q33	Q34	Q35	Q36	Q37	Q38	Q39	Q40	Q41	Q42	Q43	Q44	Q45	Q46	Q47	Q48	Q49	Q50	Q51	Q52	Q53	Q54	Q55	Q56	Q57	Q58	Q59	Q60	Q61	Q62	Q63	Q64	Q65	Q66	Q67	Q68	Q69	Q70	Q71	Q72	Q73	Q74	Q75	Q76	Q77	Q78	Q79	Q80	Q81	Q82	Q83	Q84	Q85	Q86	Q87	Q88	Q89	Q90	Q91	Q92	Q93	Q94	Q95	Q96	Q97	Q98	Q99	Q100
Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15	Q16	Q17	Q18	Q19	Q20	Q21	Q22	Q23	Q24	Q25	Q26	Q27	Q28	Q29	Q30	Q31	Q32	Q33	Q34	Q35	Q36	Q37	Q38	Q39	Q40	Q41	Q42	Q43	Q44	Q45	Q46	Q47	Q48	Q49	Q50	Q51	Q52	Q53	Q54	Q55	Q56	Q57	Q58	Q59	Q60	Q61	Q62	Q63	Q64	Q65	Q66	Q67	Q68	Q69	Q70	Q71	Q72	Q73	Q74	Q75	Q76	Q77	Q78	Q79	Q80	Q81	Q82	Q83	Q84	Q85	Q86	Q87	Q88	Q89	Q90	Q91	Q92	Q93	Q94	Q95	Q96	Q97	Q98	Q99	Q100	

PARAMETRIC VALUES

BETAT	.000	CRBINC	.500
RUDDER	.000	ELEVON	.000
RUDLER	.000		



QMS NOZZLE PRESSURES



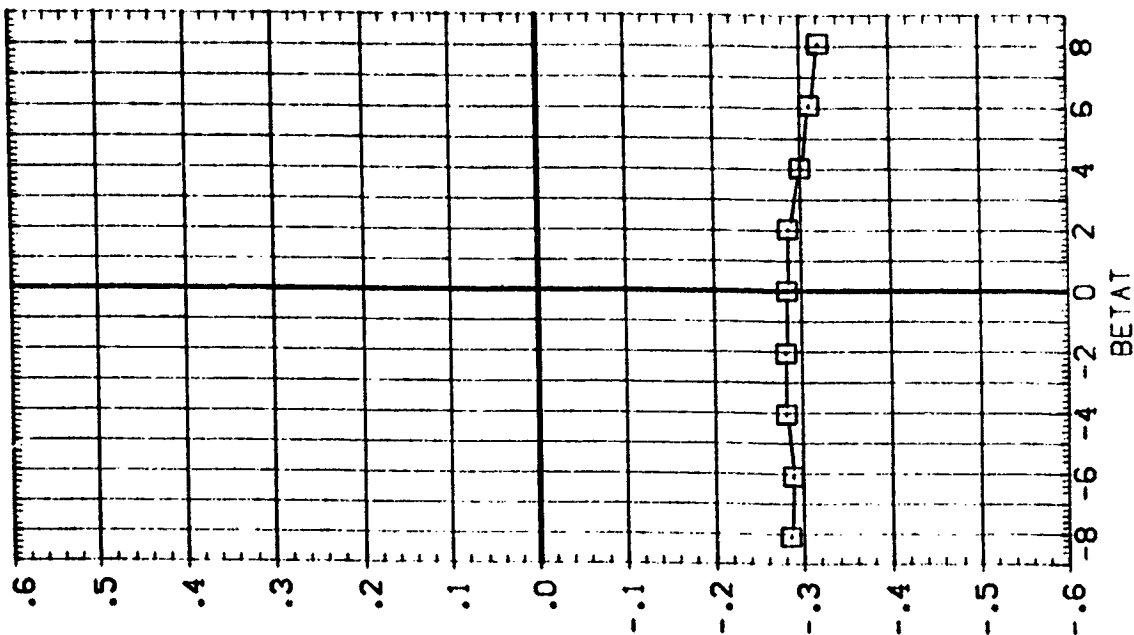
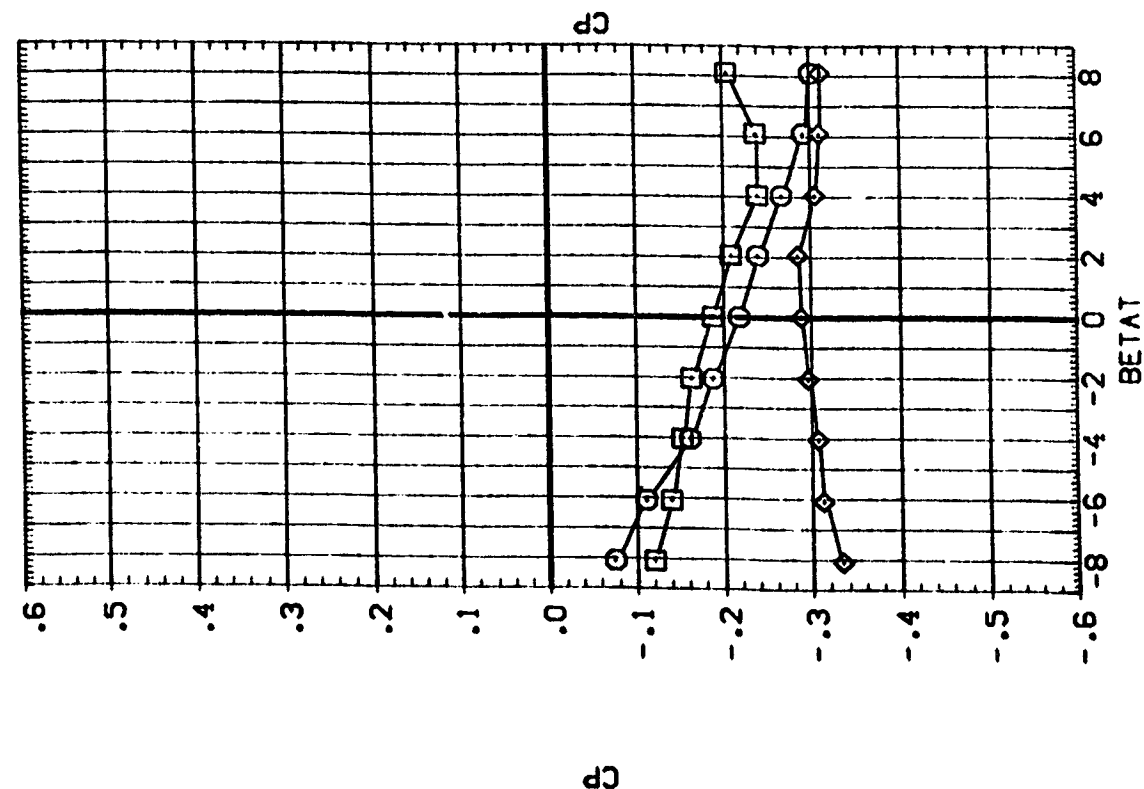
AMES 1:-707 1A9 C2A + S3 + 19 OMS NOZZLE

(RBME07)

SYMBOL
○ □ ◇

PHI 135.000
180.000
225.000
X/LW .200
.400
MACH .597

PARAMETRIC VALUES
ALPHAT .000
RUDER .000
RUDLR .000
ORBITC .500
ELEVON .000



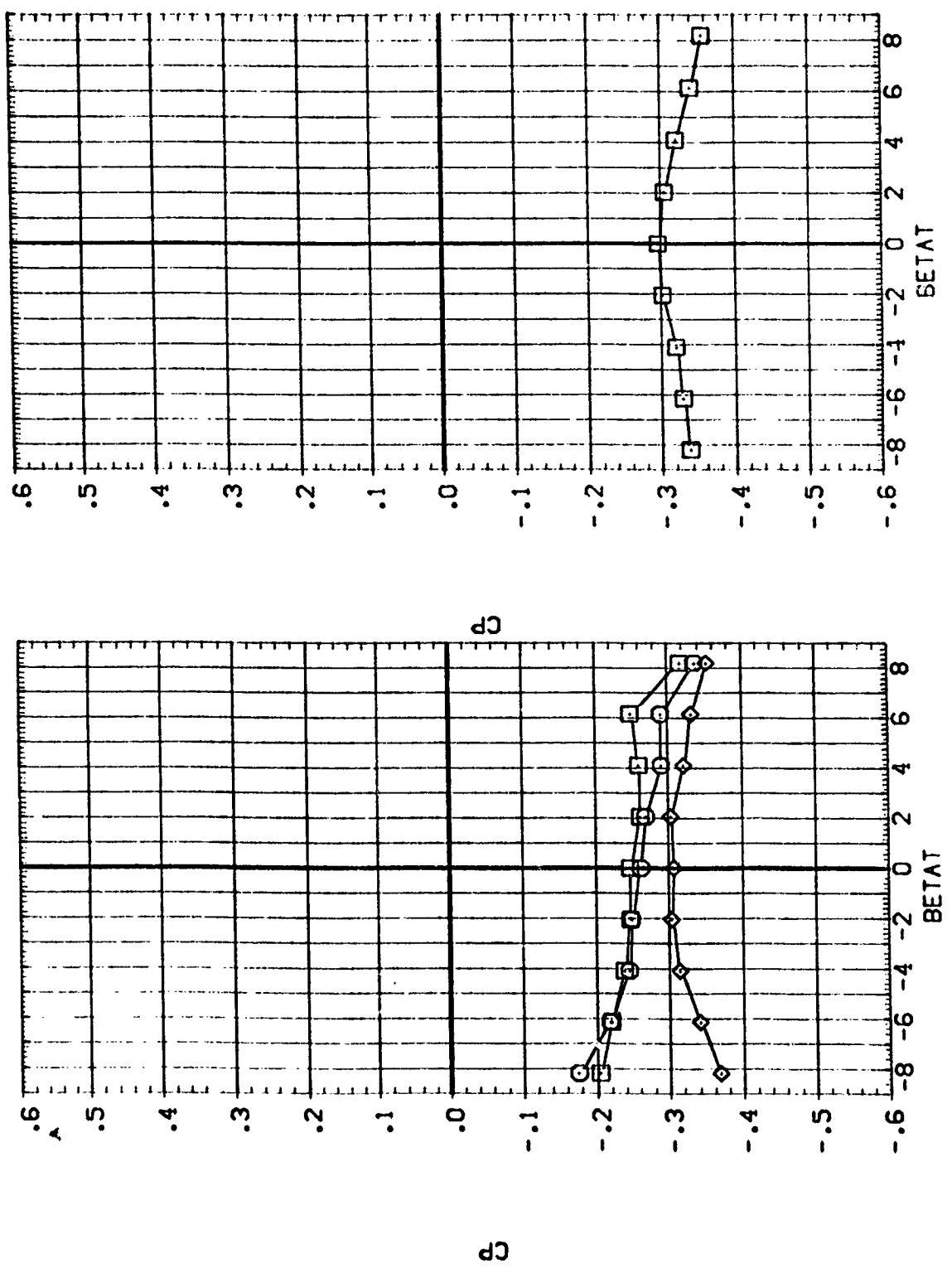
OMS NOZZLE PRESSURES



AVES 11:107 1A9 02A + S3 + T9 GMS NOZZLE

(RBME07)

SYMBOL	PWT	X/LIN	MACH	PARAMETRIC VALUES			
				ALPHAT	ORBITC	ELEVON	
○	135.000	.200	.900	.000	.000	.000	
◇	180.000	.400	.400	.000	.000	.000	
	275.000						



END 1077.5 0000000000



AMES 11-707 1A9 02A + S3 + T9 OMS NOZZLE

(RBME07)

SYMBOL

○ □ ◇

135.000
.80.000
225.000

X/LIN²
.200
.400

MACH
1.100

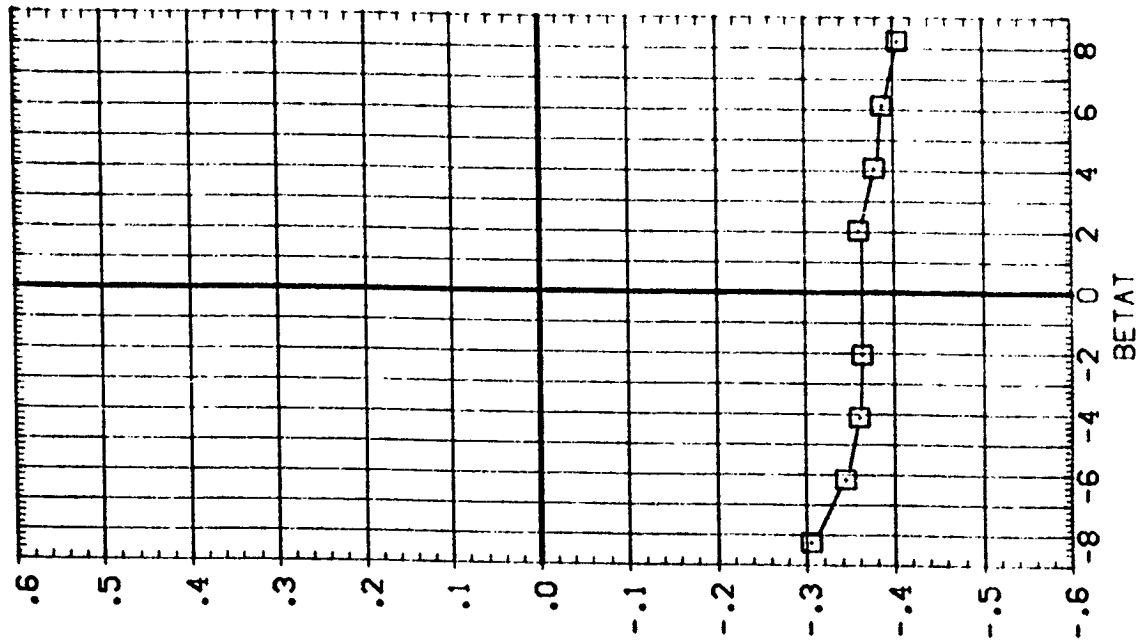
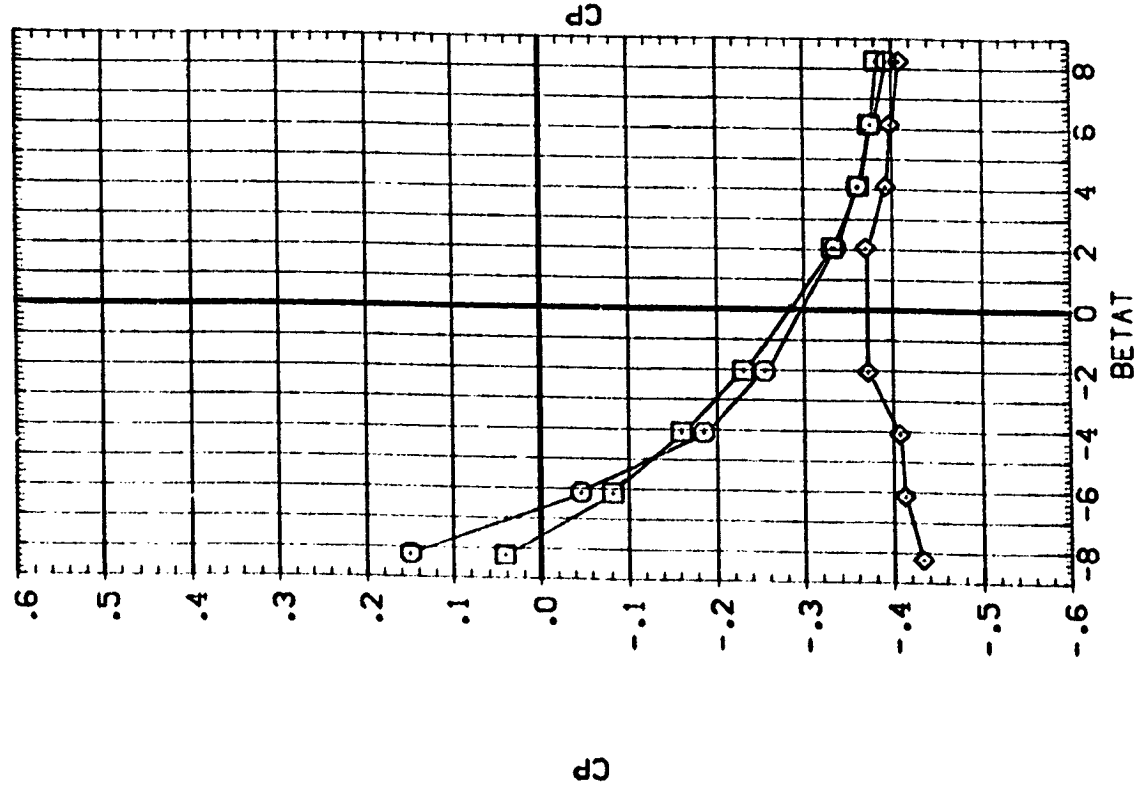
PARAMETRIC VALUES

ALPHAT
RUDDER
RUOFLR

.000
.000
.000

OSBINC
ELEVON

.500
.000



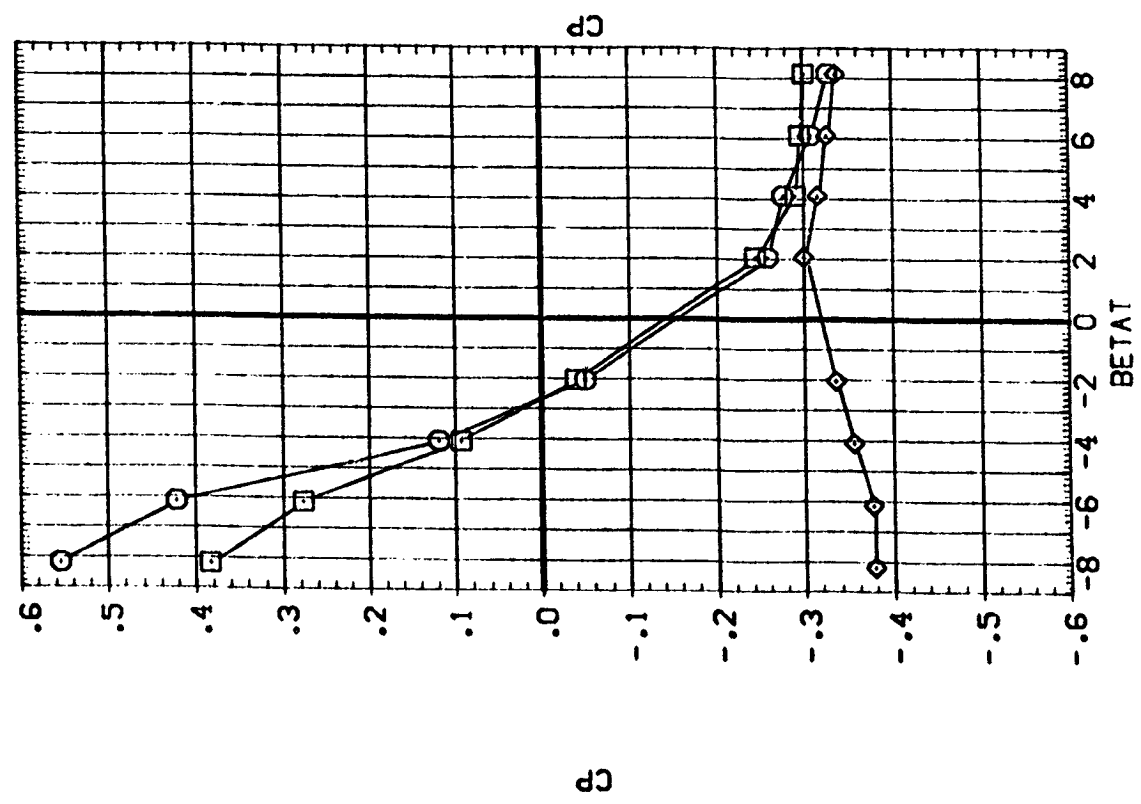
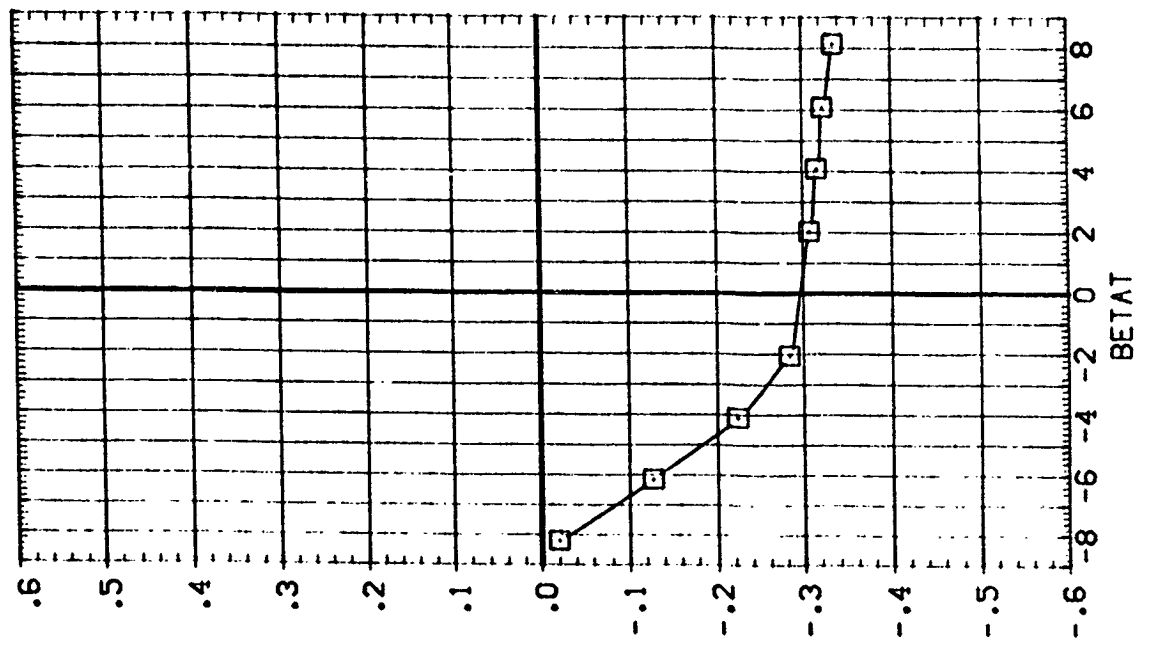
OMS NOZZLE PRESSURES

AVES 11-707 1A9 C2A + S3 + T9 OMS NOZZLE

(RBME07)

PARAMETRIC VALUES
 ALPHAT .000 ORBINC .500
 RUDDER .000 ELEVON .000
 RUFLR .000

SYMB: P-1 X/LIN MACH
 135.000 .200 1.249
 180.000 .400
 225.000



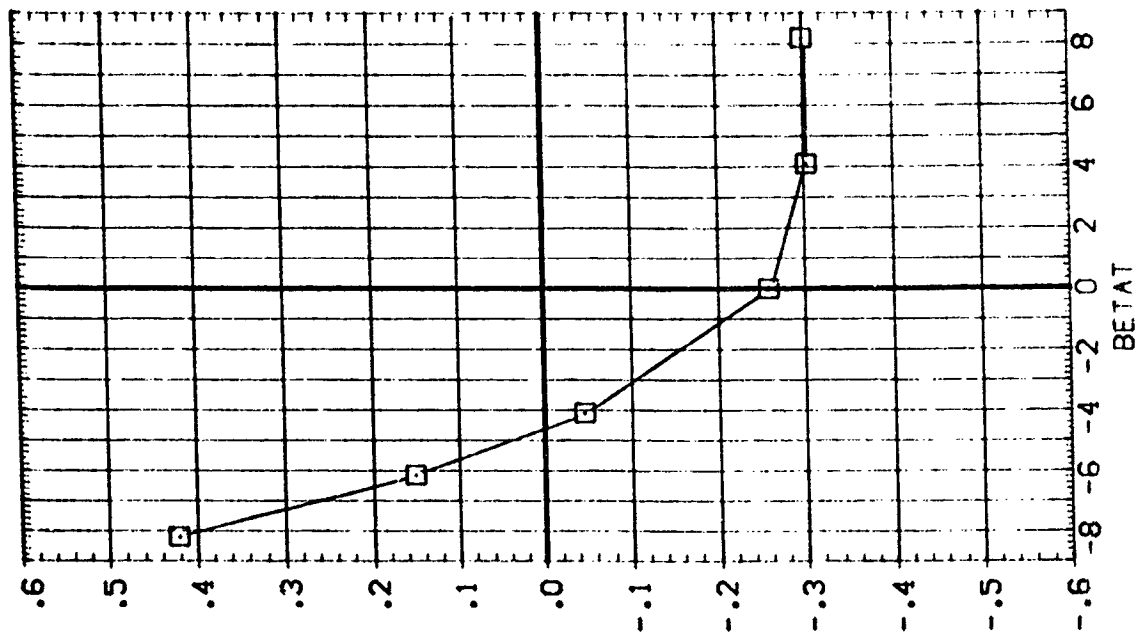
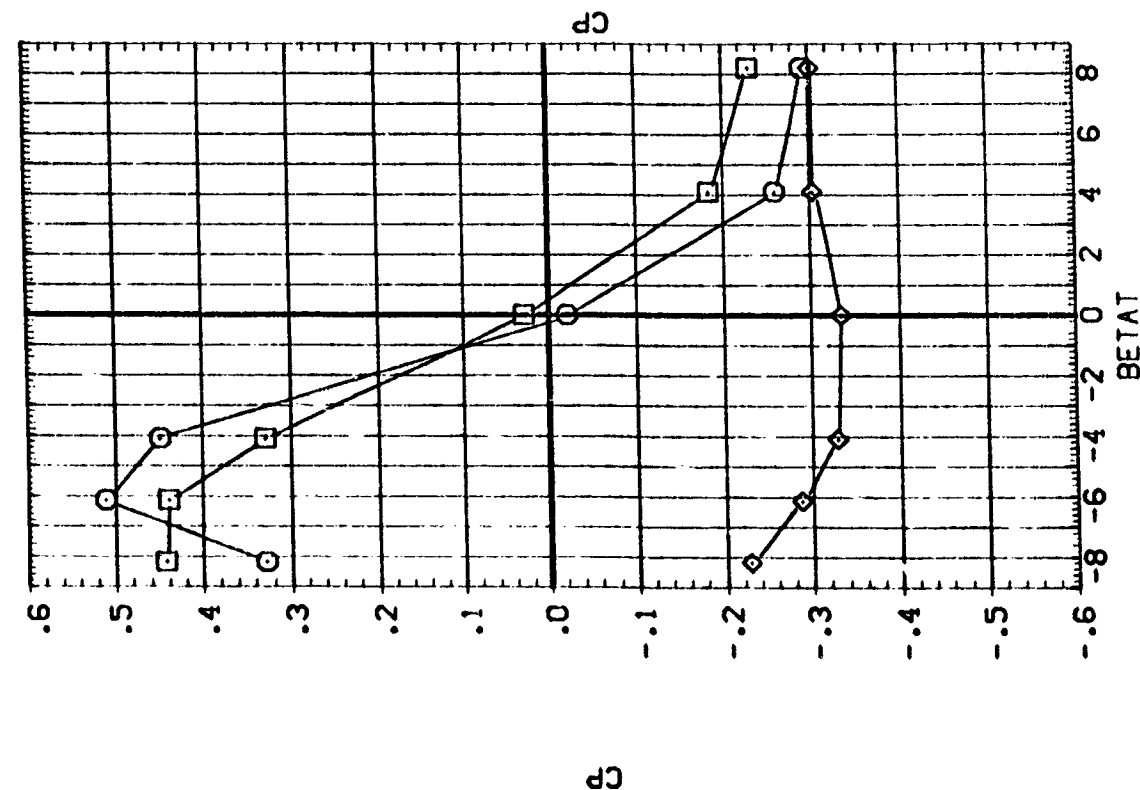


AMES 1:-707 1A9 02A + S3 + T9 QMS NOZZLE

(RBME07)

SYMBOL \diamond \square \circ
 P#1 135.000
 180.000
 225.000
 X/LIN .200 .400
 MACH 1.395

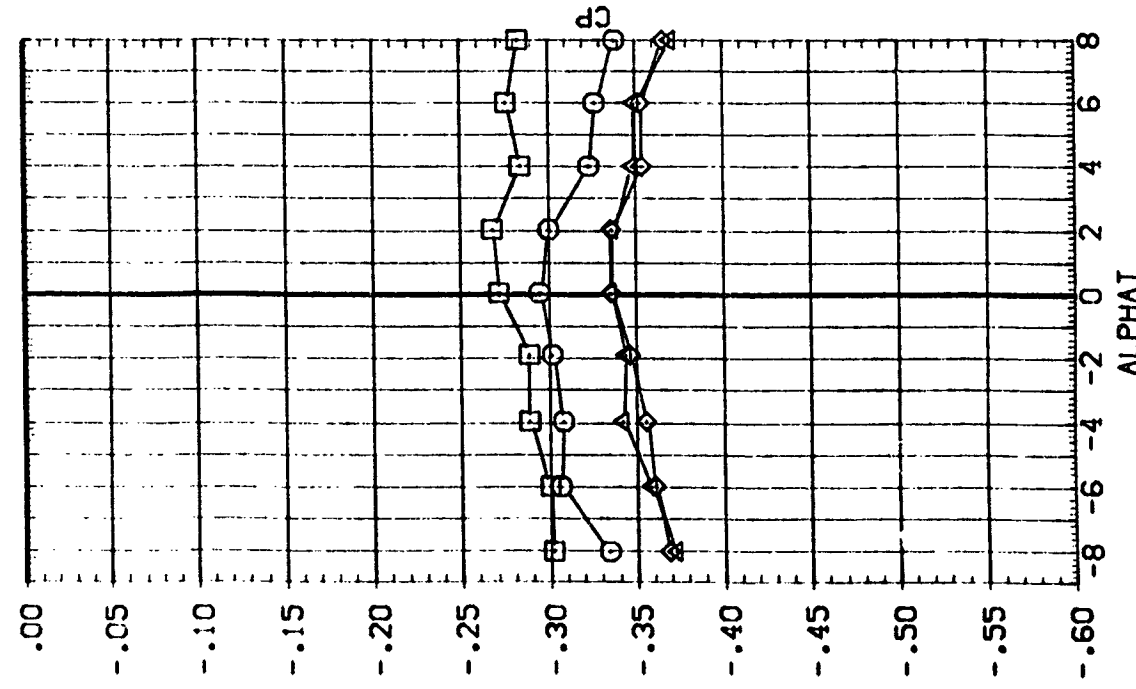
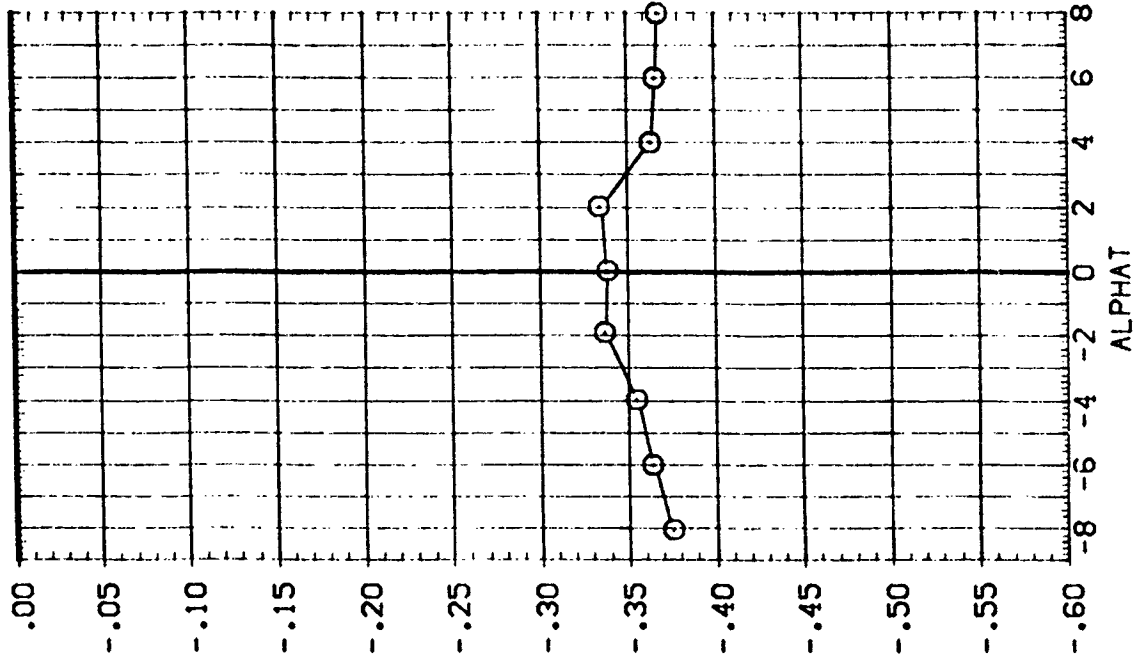
PARAMETRIC VALUES
 ALPHAT .000
 RUDDER .000
 RUDFLR .000
 ORBINC .500
 ELEVON .000





AVES 11-707 1A9 C2A - S3 + 19 SRV BOOSTER BASE (RBMXC2)

SYMBOL	AV	X/L/S	MACH	PARAMETRIC VALUES			
01	.000	.985	.598	BETAT	.000	CRB:INC	.500
02	90.000	.000		RJDER	.000	ELEVON	.000
03	190.000			RJDER	.000		
04	270.000						

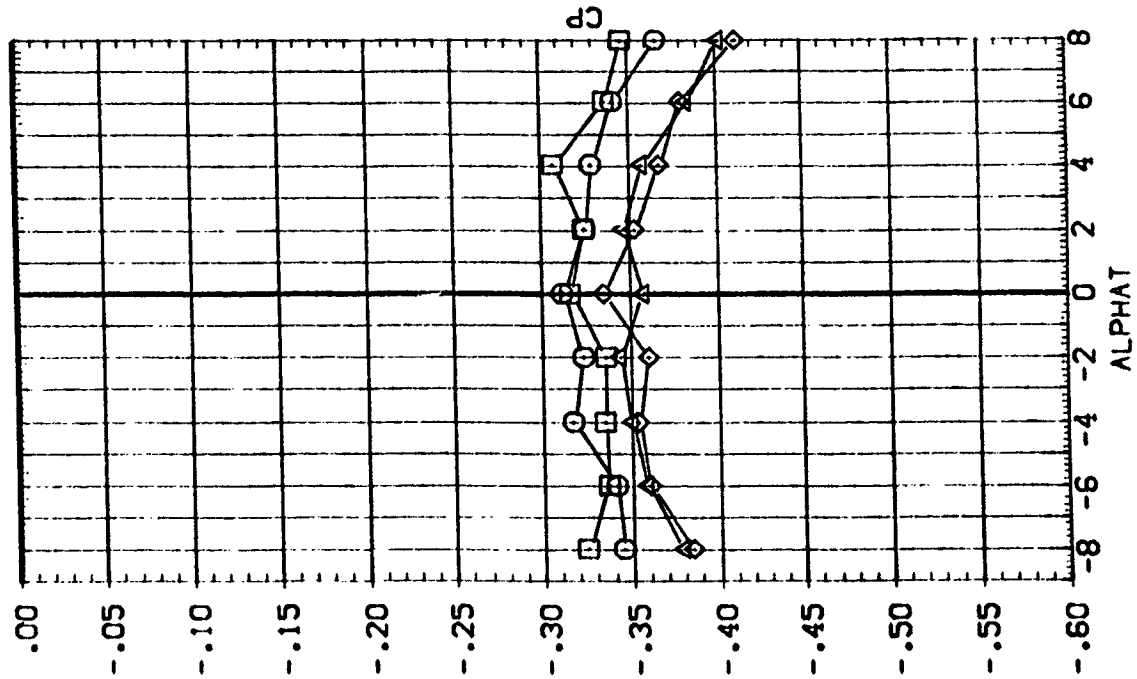
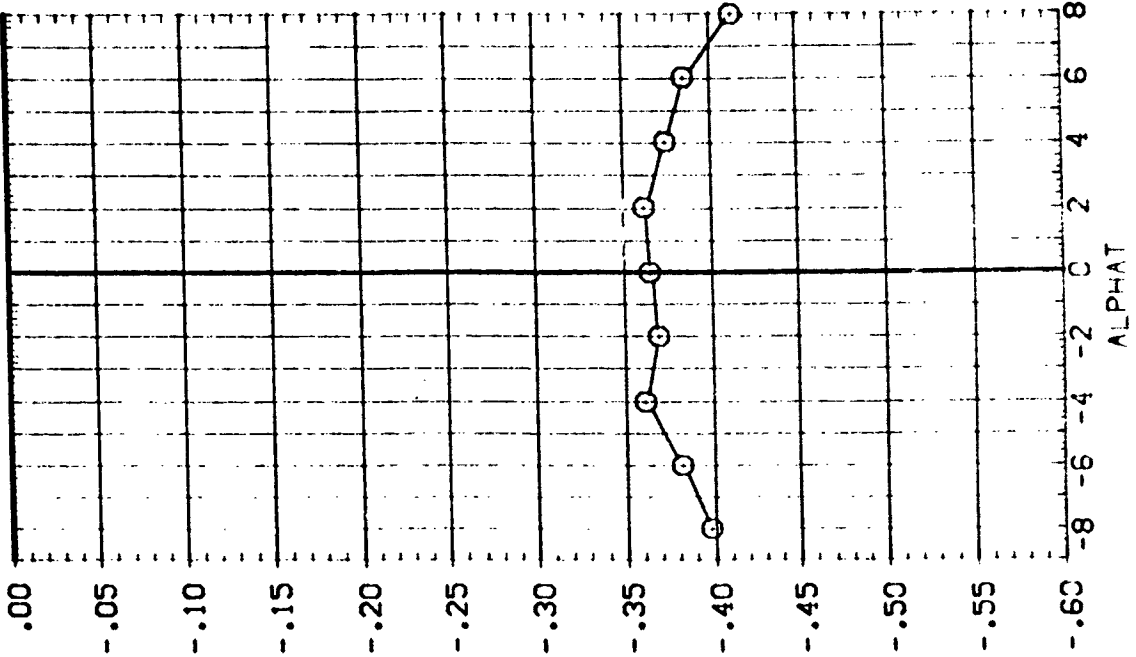


C_D



AMES 1:-707 1A9 C2A + S3 + T9 SRM BOOSTER BASE (RBMX02)

SYMBOL	PAI	X/LS	MACH	PARAMETRIC VALUES		
○	.000	.995	.903	BETAT	ORBNIC	.500
□	90.000	1.000		RUDER	ELEVON	.000
◇	180.000			RUDFLR		.000
△	270.000					



SRM BOOSTER BASE PRESSURES



AMES 11-707 1A9 C2A + S3 + T9 SRM BOOSTER BASE (RBMX02)

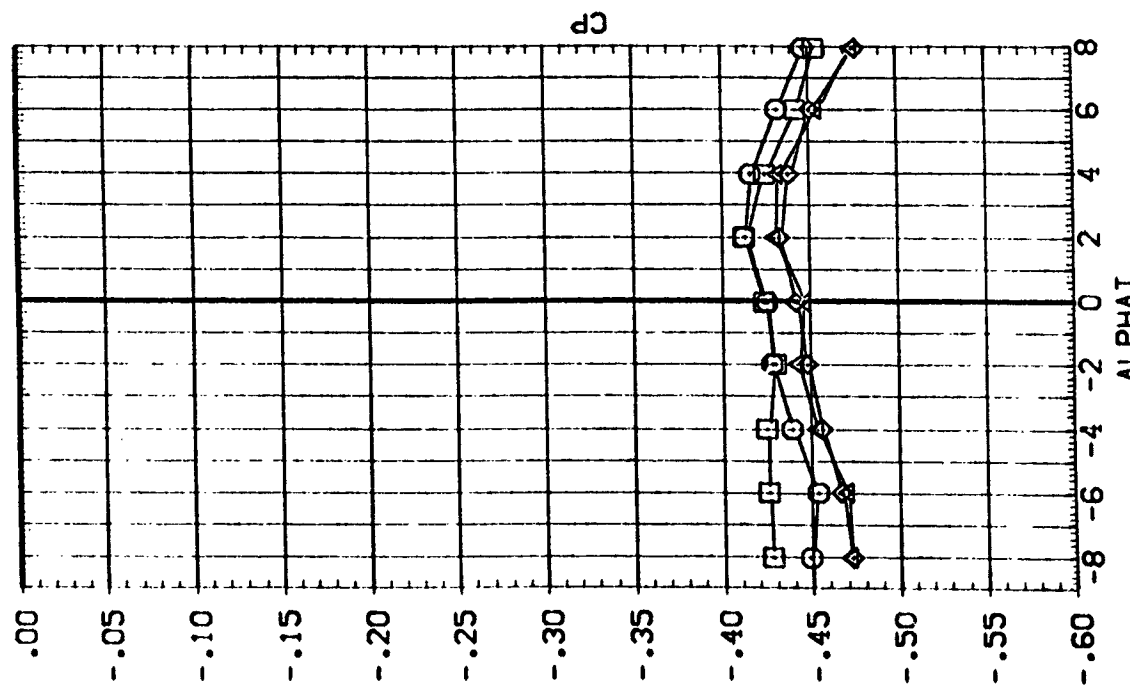
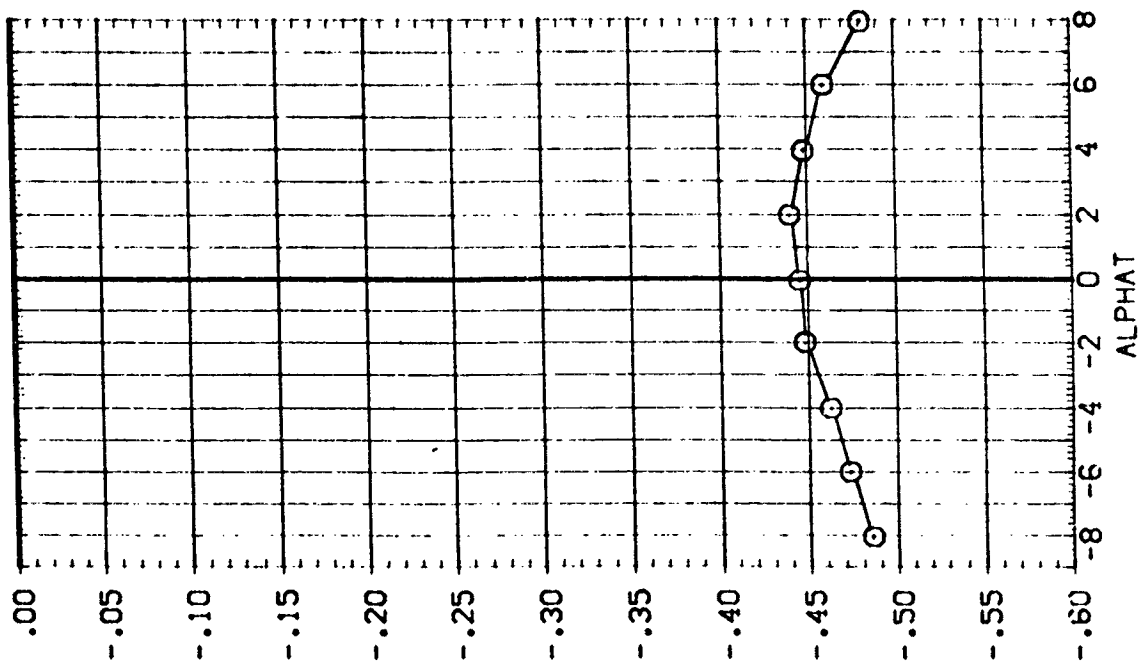
SYMBOL
□ ◇ △

PHI
.000
90.000
180.000
270.000

X/L S
.985
1.000

WACH
1.102

PARAMETRIC VALUES
BETAT
RDOOR
RDOFLR
ORBITAL
ELEVON
.500
.000
.000



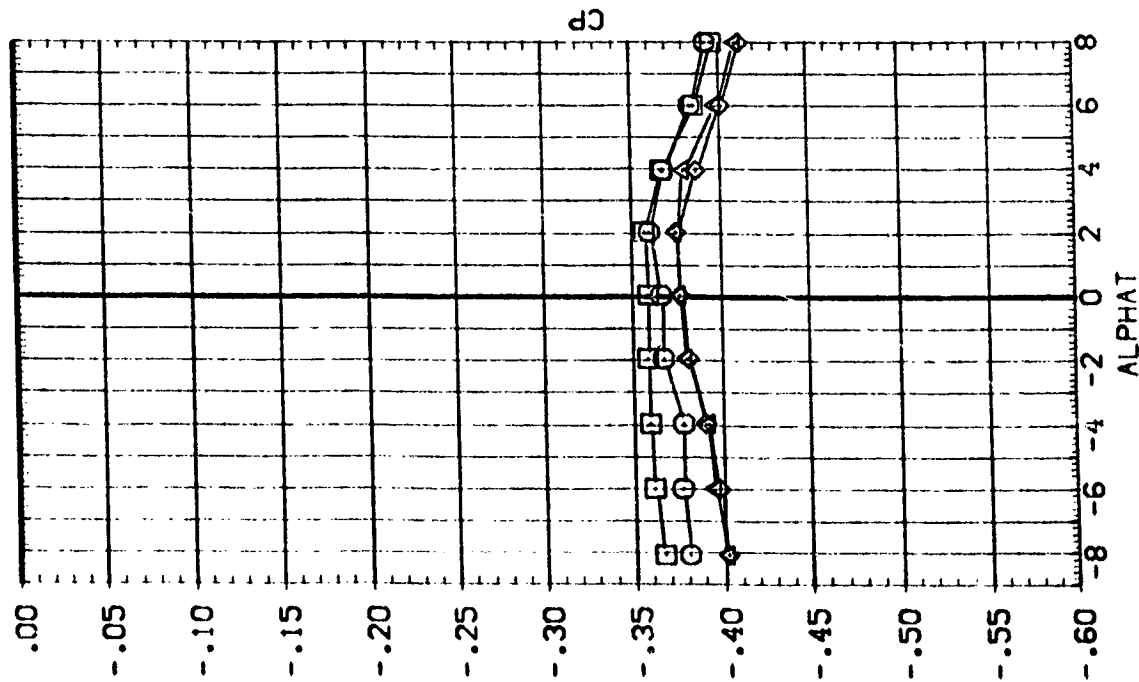
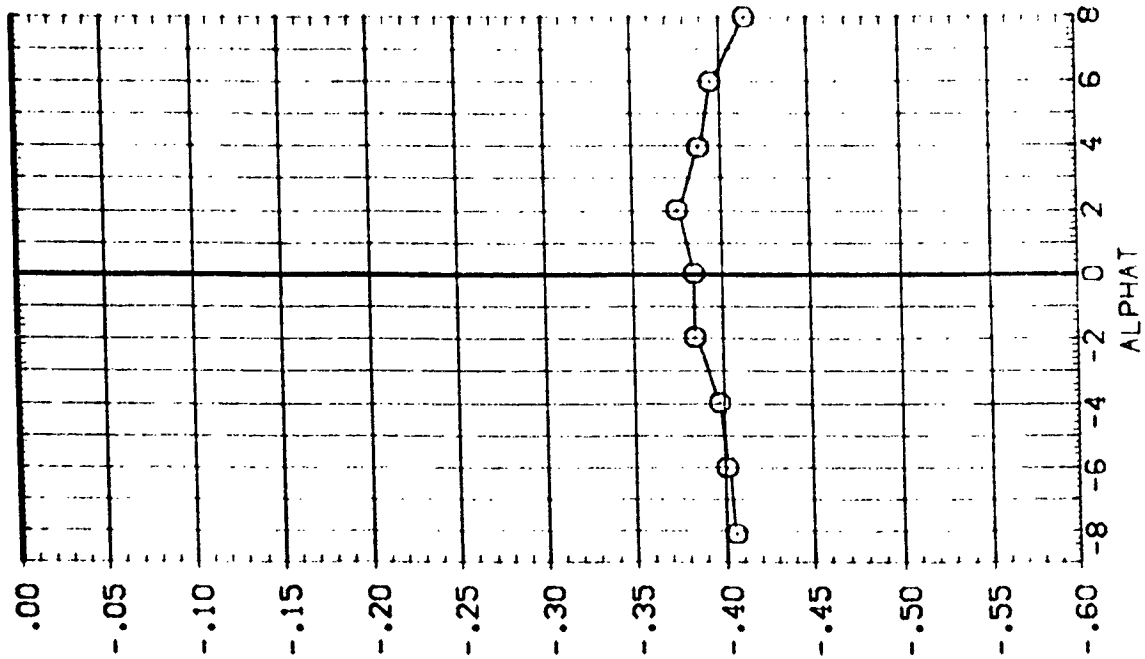


AMES 11-707 1A9 02A + S3 + T9 SRM BOOSTER BASE (RBMX02)

SYMS:
 0
 1
 2

X/S
 .000
 .995
 1.000

PARAMETRIC VALUES
 BETAT .000
 RLODR .000
 RLOFLR .000
 ORBINC .500
 ELEVON .000

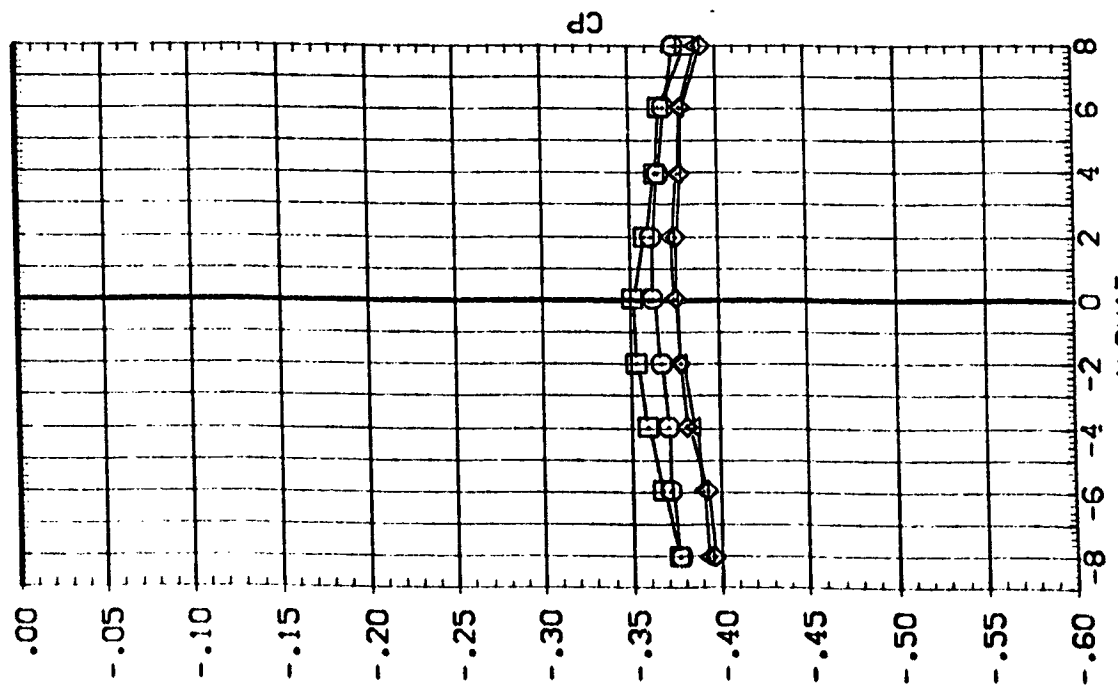
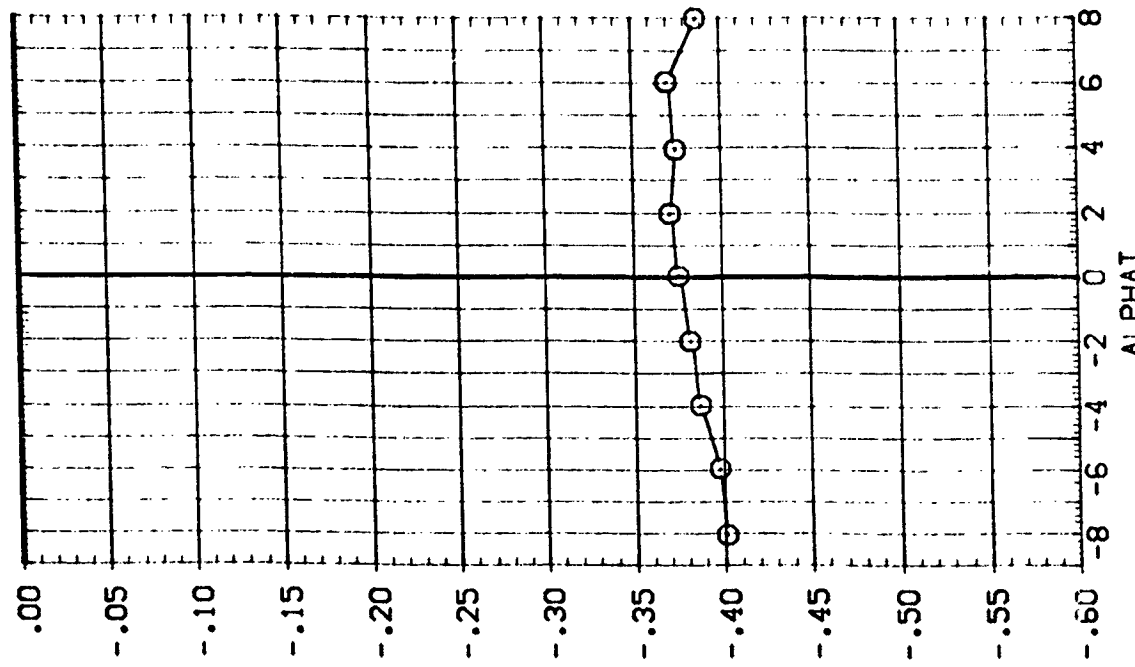


SRM BOOSTER BASE PRESSURES



AVES 11-707 1A9 C2A + S3 + T9 SRM BOOSTER BASE (RBMX02)

S'WBC	0.000	X/LS	0.995	WACH	1.401
0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000
0.000	0.000	0.000	0.000	0.000	0.000

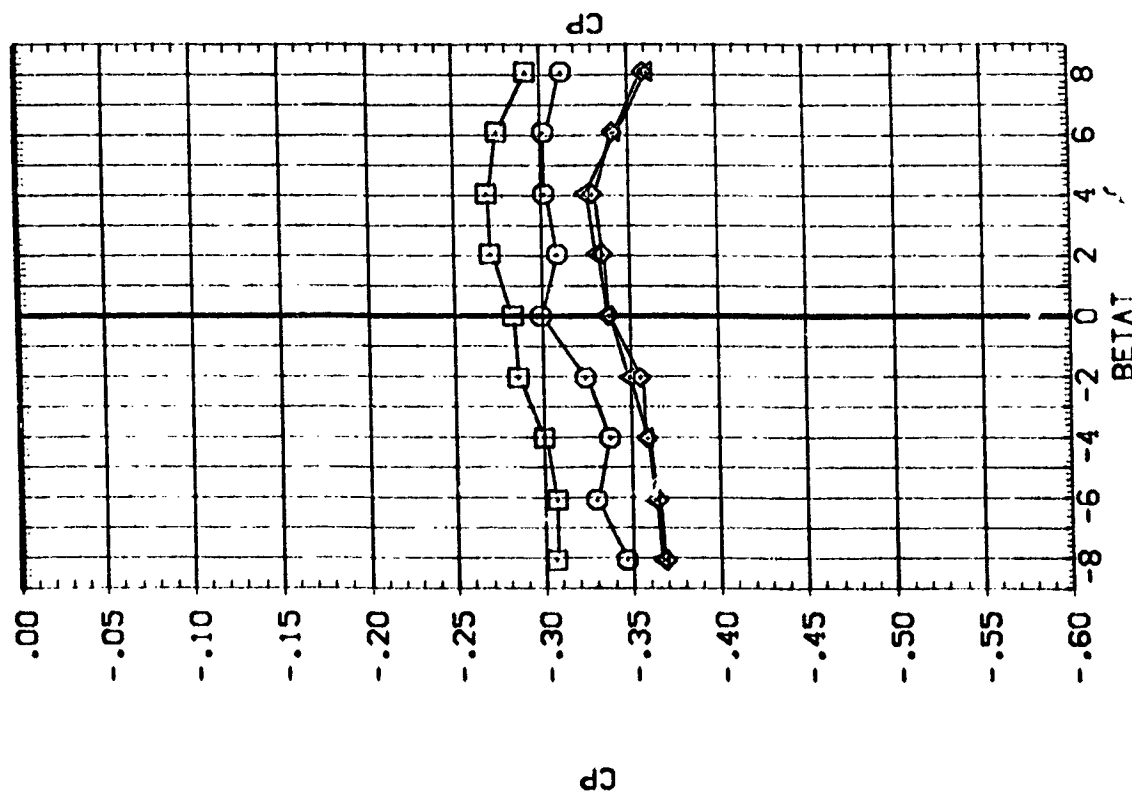
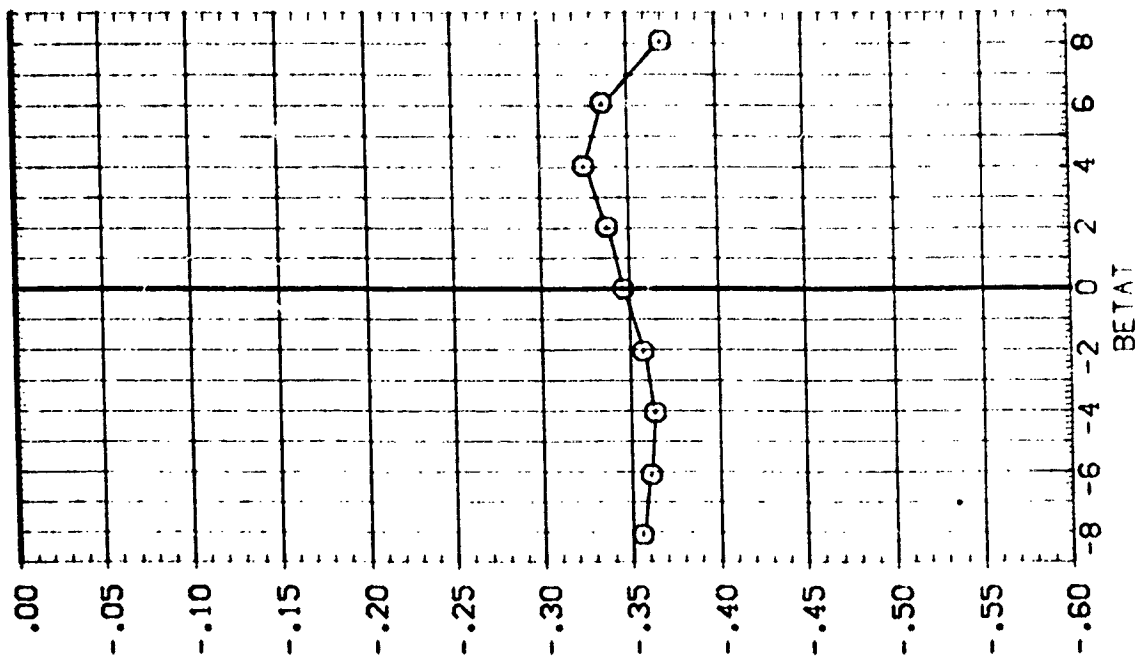




AMES 11-707 1A9 32A + S3 + T9 SRM BOOSTER BASE (RBMX07)

SYNDC- PH: X/L S MACH
 () .000 .985 .597
 I 90.000 1.000
 D 180.000
 A 270.000

PARAMETRIC VALUES
 .000 ORBINC .500
 .000 ELEVON .000
 .000
 ALPHAT
 RUDDER
 RUDDLR



SRM BOOSTER BASE ORBITAL DATA



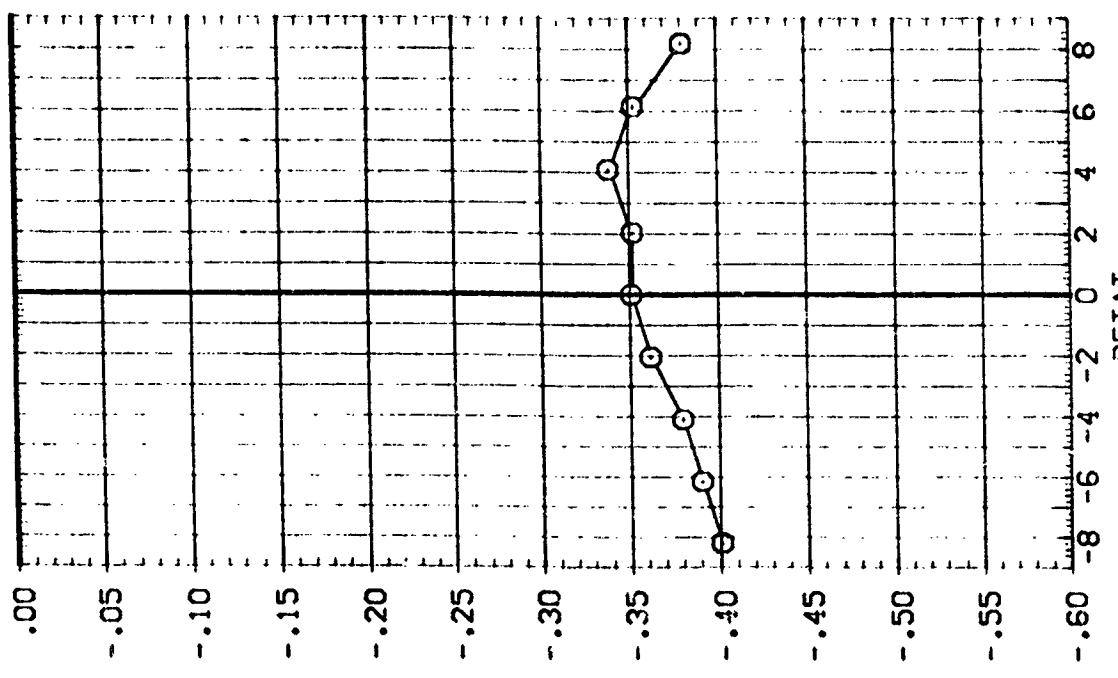
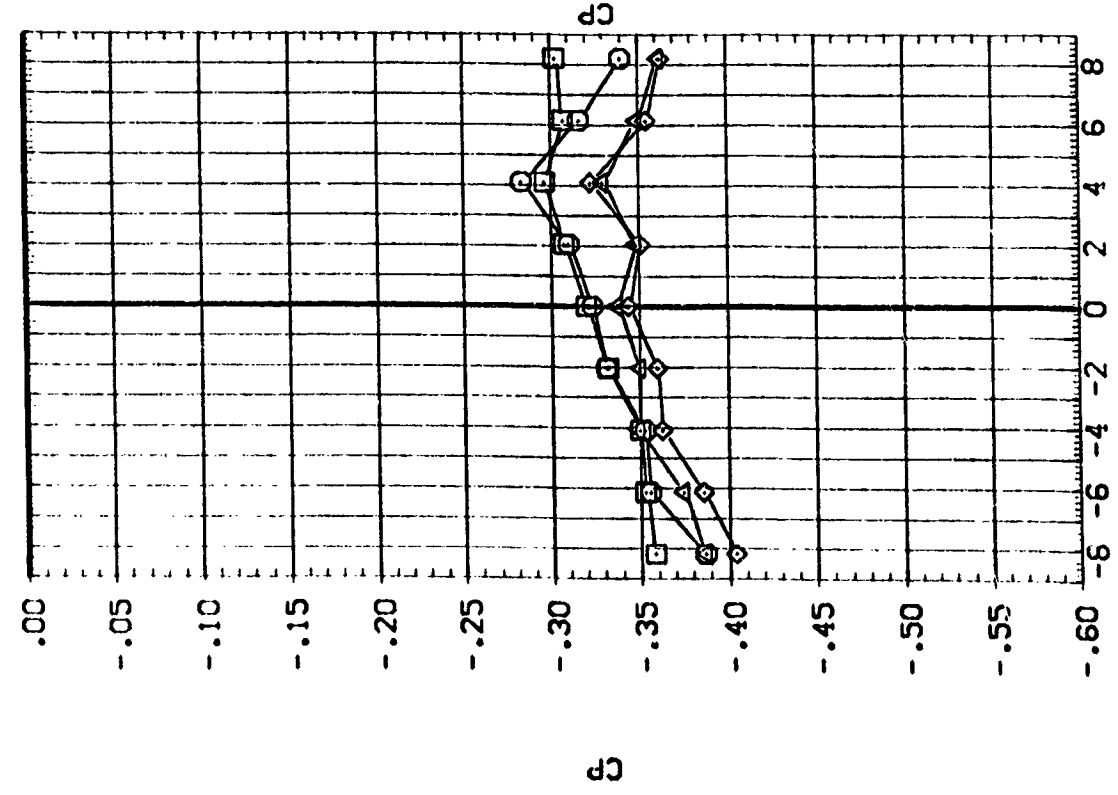
AVES 11-707 1A9 32A + S3 + 19 SRM BOOSTER BASE (RBMX07)

SYMBOL
◇

AL: .000
90:000
100:000
270:000

X/L S .995
WACH .900

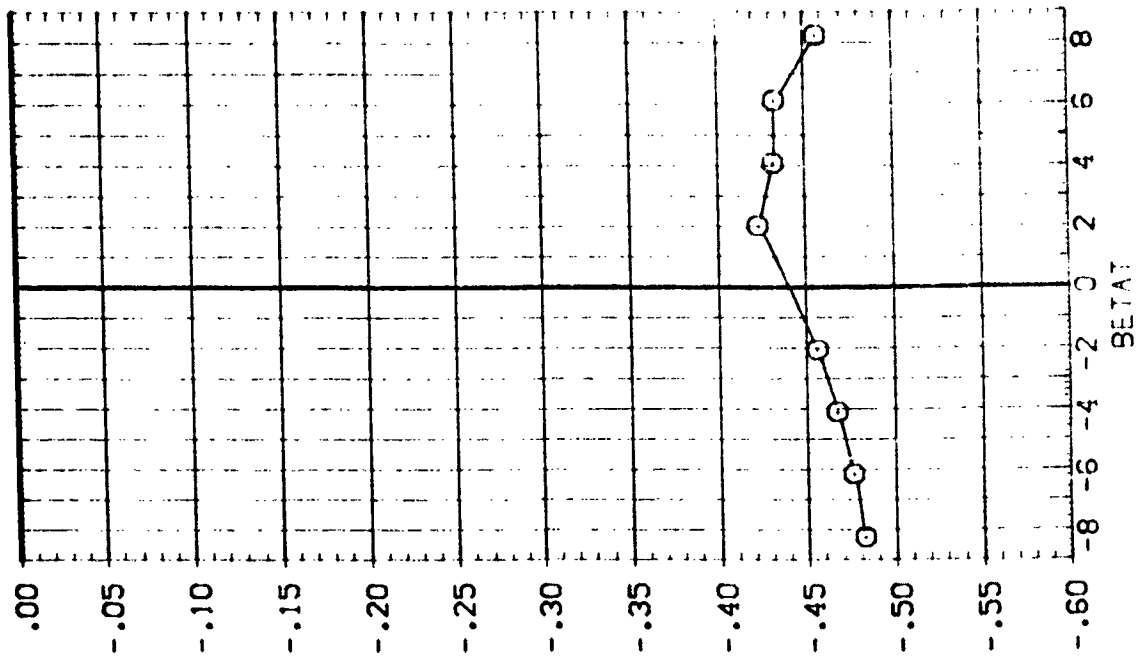
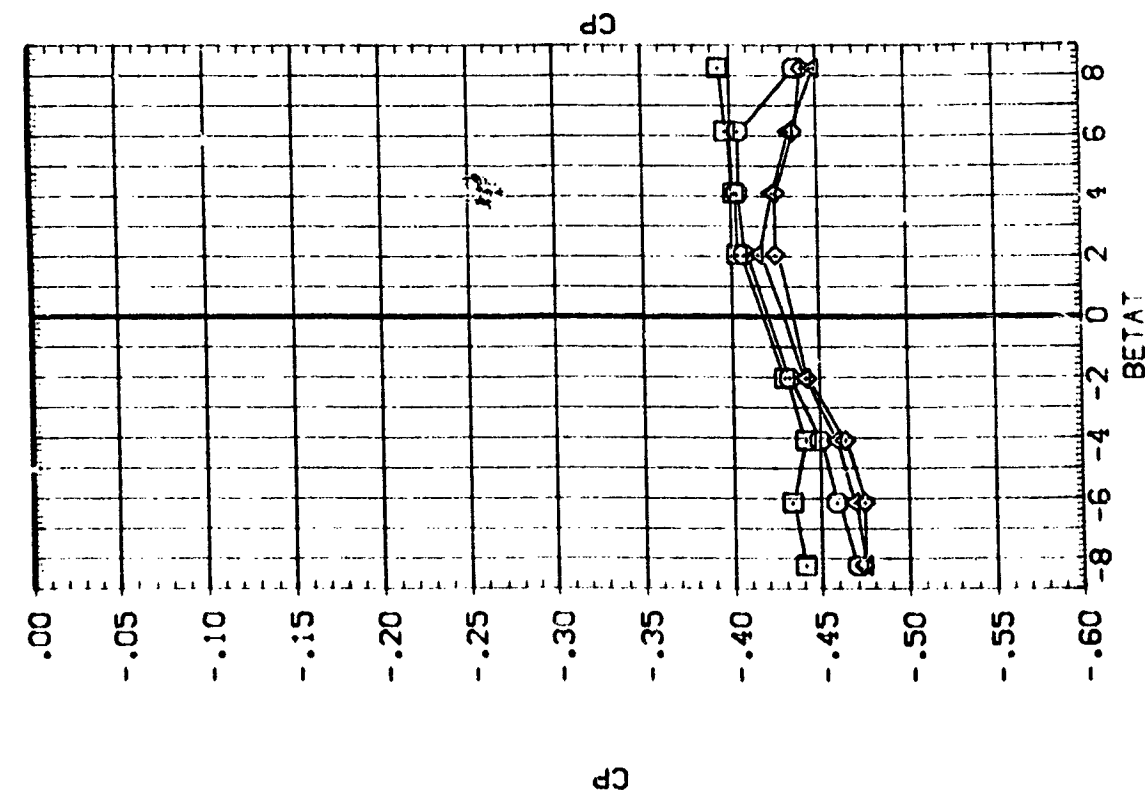
PARAMETRIC VALUES
ALPHAAT .000
RUDER .000
ROLLING .500
ELEVON .000





AVES 11-707 1A9 02A + S3 + T9 SRM BOOSTER BASE (RBMX07)

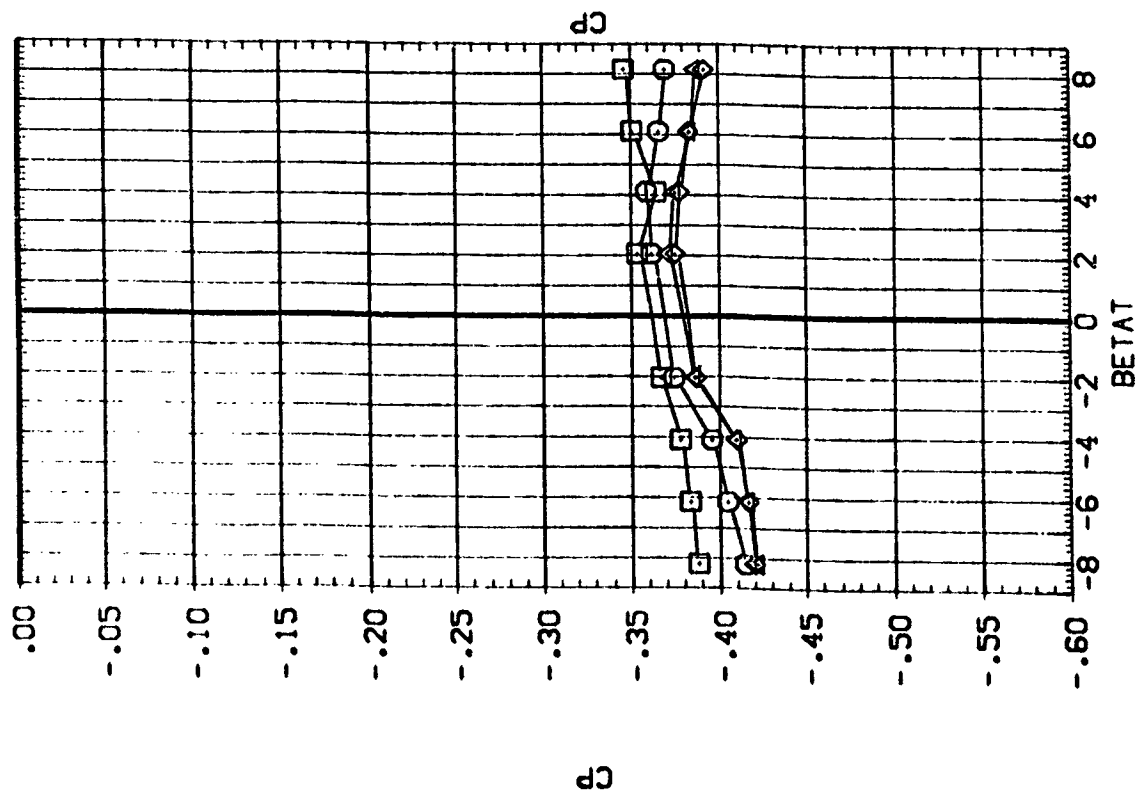
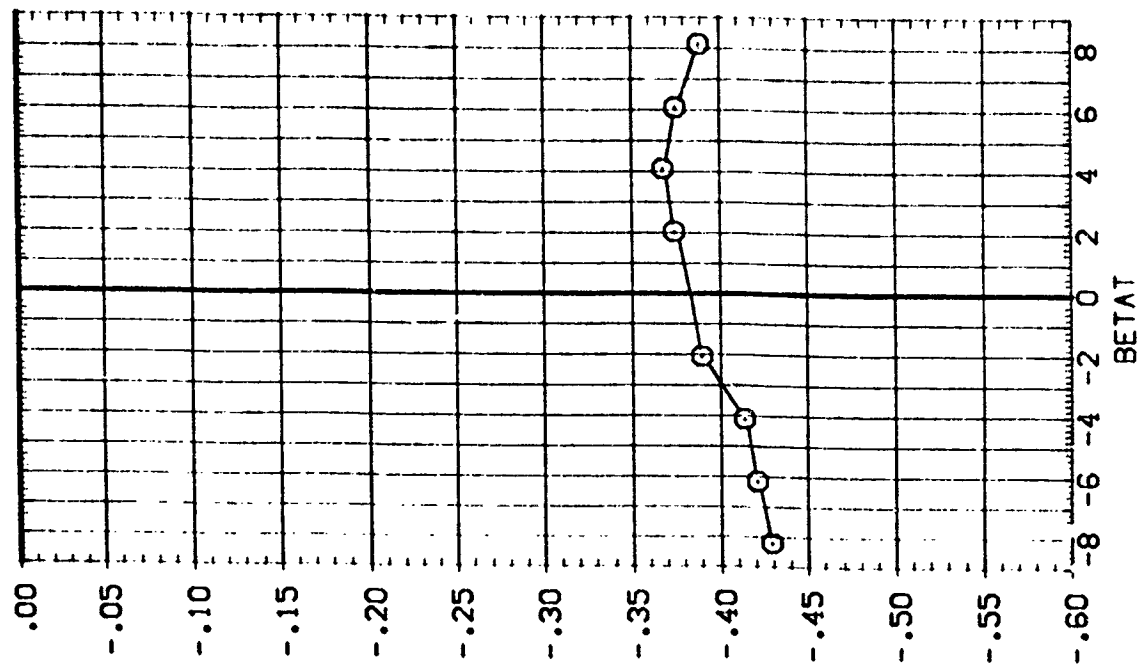
SYMBOL	XALS		MACH		PARAMETRIC VALUES			
	0.000	.985	1.000	1.100	ALPHAT	.000	ORBINC	.500
□	50.000	1.000			RUDER	.000	ELEVEN	.000
◇	180.000				RUDFLR	.000		
△	270.000							



(RBMXC7)

PARAMETRIC VALUES	
ALPHAT	.000 ORB:INC
RUDDER	.000 ELEVEN
RUDDER	.000
	.500
	.000

SVS	DL	X/S	MACH
0	.000	.985	1.249
1	.000	.000	
2	.000	.000	
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38	.000	.000	
39	.000	.000	
40	.000	.000	
41	.000	.000	
42	.000	.000	
43	.000	.000	
44	.000	.000	
45	.000	.000	
46	.000	.000	
47	.000	.000	
48	.000	.000	
49	.000	.000	
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51	.000	.000	
52	.000	.000	
53	.000	.000	
54	.000	.000	
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56	.000	.000	
57	.000	.000	
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67	.000	.000	
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69	.000	.000	
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73	.000	.000	
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75	.000	.000	
76	.000	.000	
77	.000	.000	
78	.000	.000	
79	.000	.000	
80	.000	.000	
81	.000	.000	
82	.000	.000	
83	.000	.000	
84	.000	.000	
85	.000	.000	
86	.000	.000	
87	.000	.000	
88	.000	.000	
89	.000	.000	
90	.000	.000	
91	.000	.000	
92	.000	.000	
93	.000	.000	
94	.000	.000	
95	.000	.000	
96	.000	.000	
97	.000	.000	
98	.000	.000	
99	.000	.000	





AMES 1:-707 :A9 02A + S3 + T9 SRM BOOSTER BASE (RBMX07)

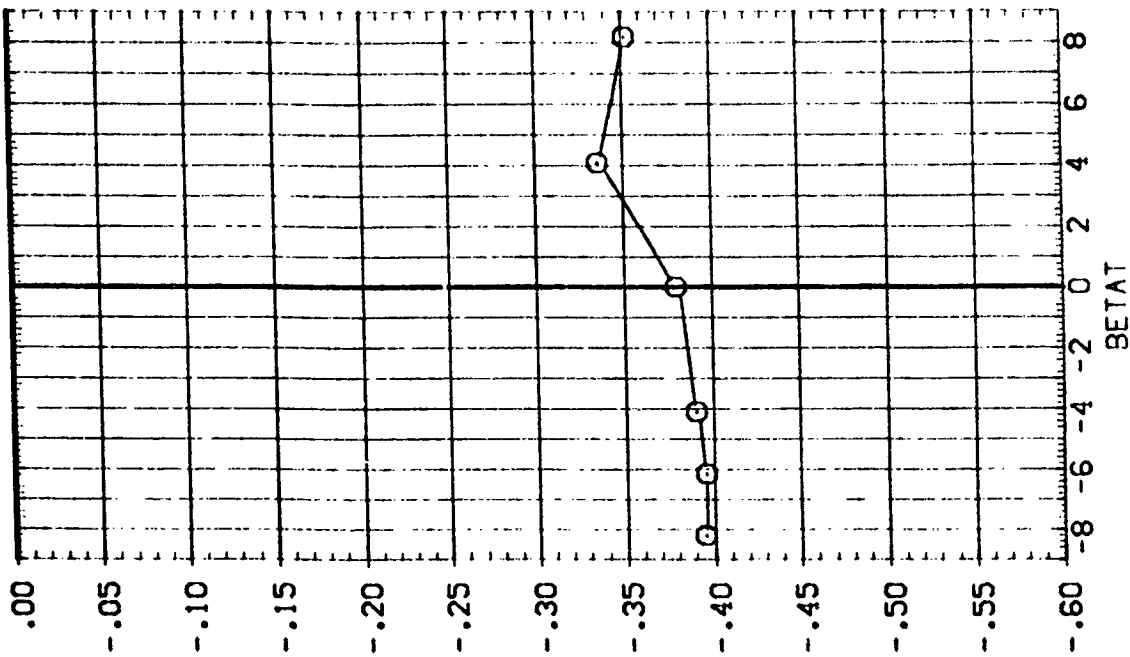
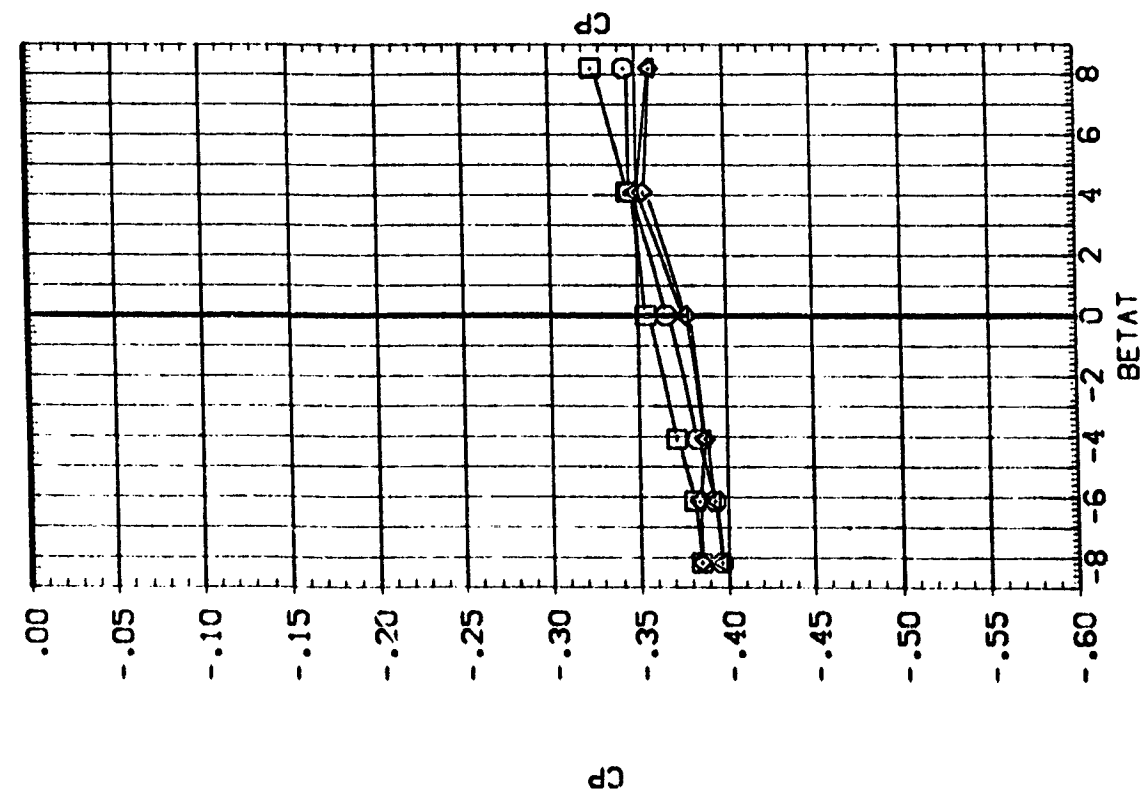
SYMBOL
□
○
◇
△

PM: .000
90.000
180.000
270.000

X/L S MACH
.985 1.395
1.000

PARAMETRIC VALUES
ALPHAT
RUDDER
RUDFLR

.000
ORBITC
ELEVEN
.000

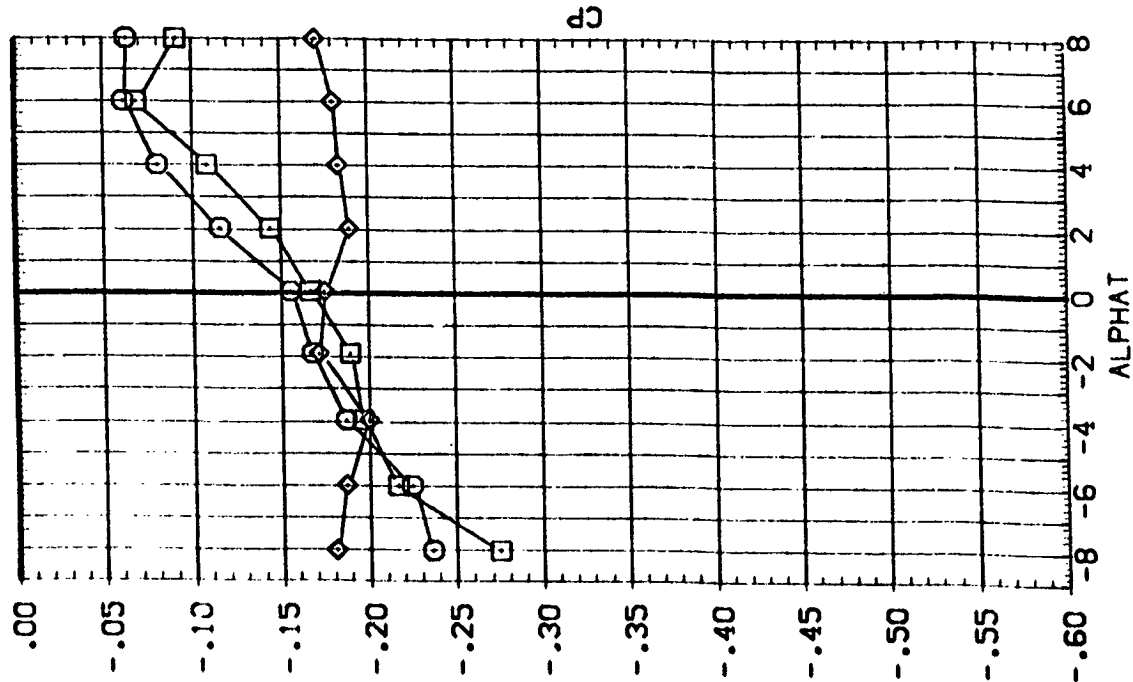
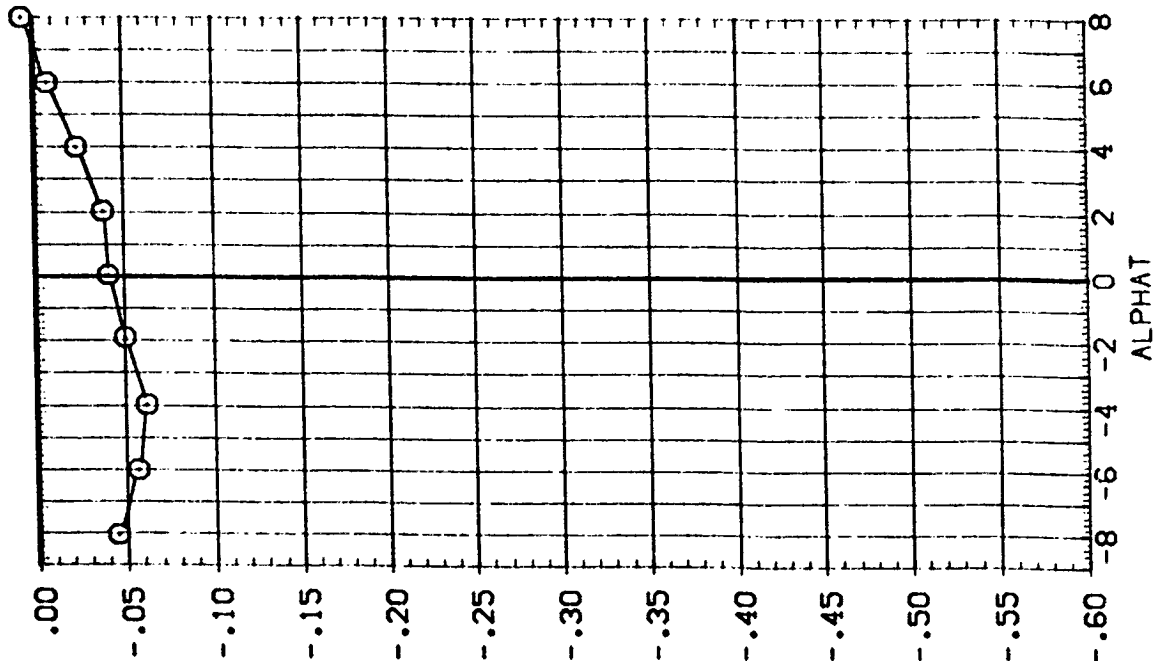


SRM BOOSTER BASE PRESSURES

AVES 11-707 1A9 32A + S3 + T9 EXTERNAL TANK BASE (RBMV02)

SYNOPSIS: .000 .977 .598
 .000 .000 .000
 .000 .000 .000

PARAMETRIC VALUES
 BETAT .000 CRBINC .500
 RUDDER .000 ELEVON .000
 RUOFLR .000

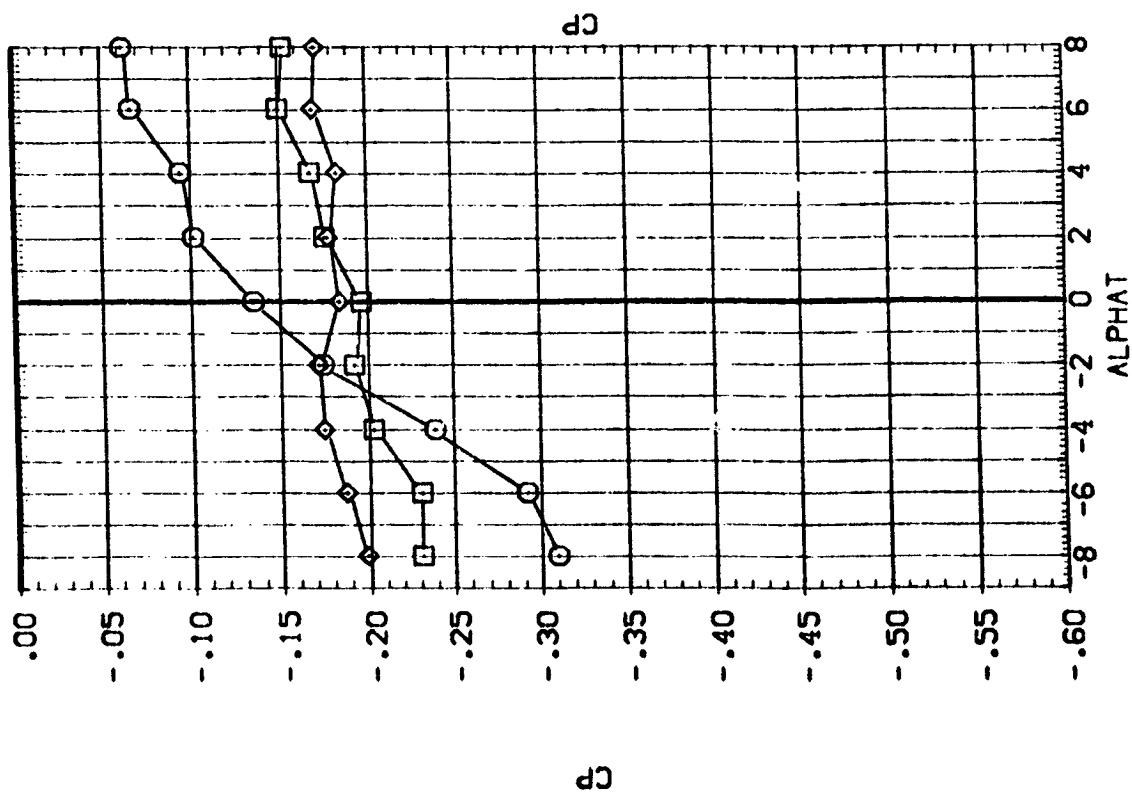
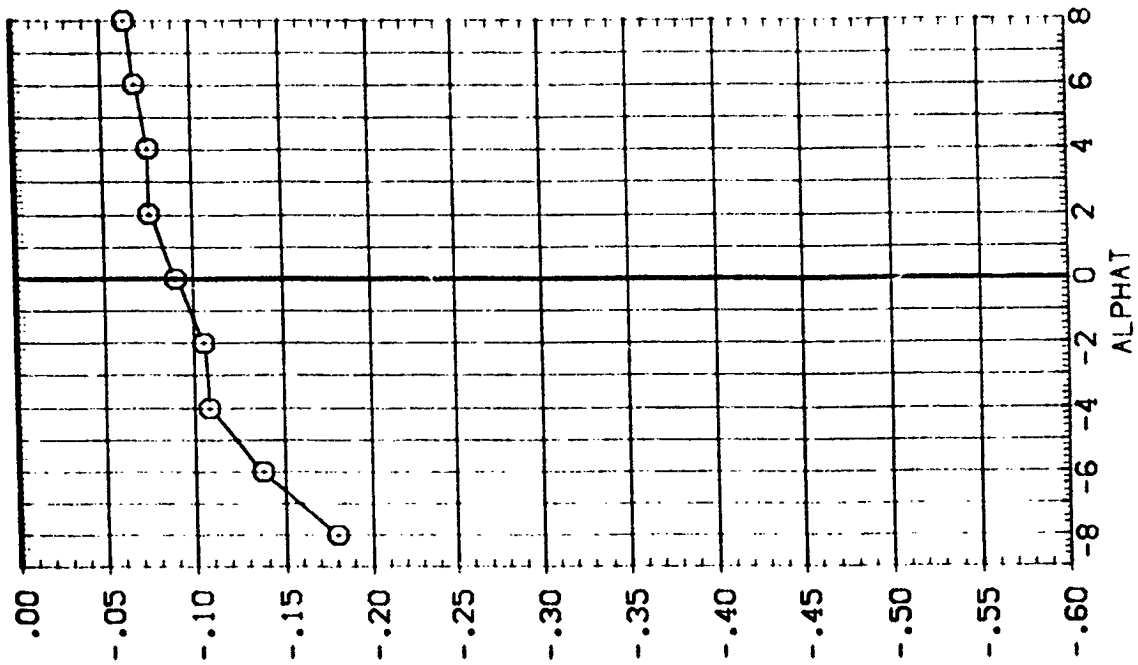


EXTERNAL TANK BASE PRESSURES



AMES 11-707 1A9 32A + S3 + T9 EXTERNAL TANK BASE (RBMV02)

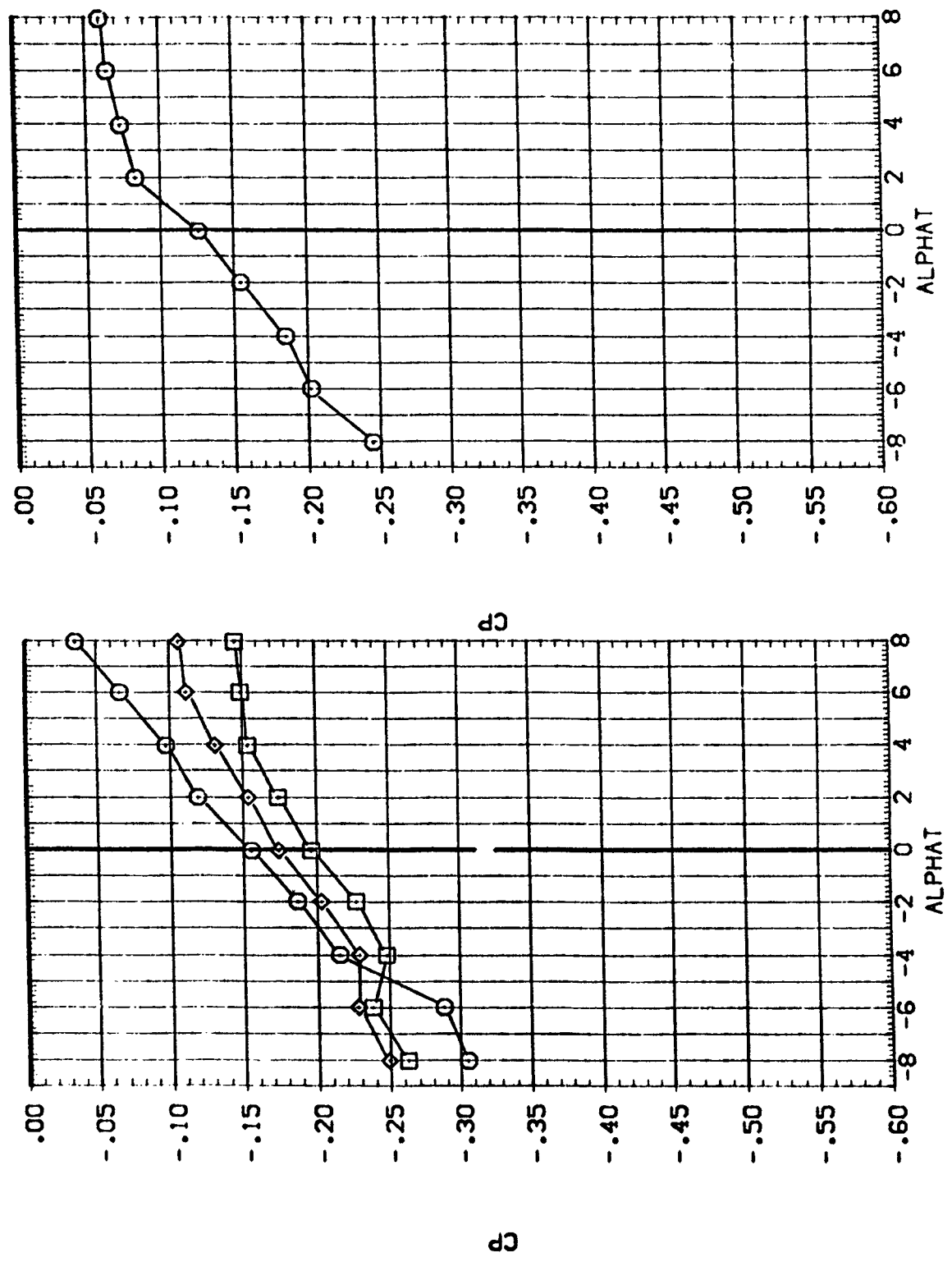
SYMBOL	PH	X/LT	MACH	PARAMETRIC VALUES			
				BETAT	ORBINC	ELEVON	
○	.000	.977	.903	.000	.000	.000	.500
□	90.000	1.000		.000	.000	.000	.000
◇	180.000			.000	.000	.000	.000





AMES 11-707 1A9 02A + S3 + T9 EXTERNAL TANK BASE (RBMVC2)

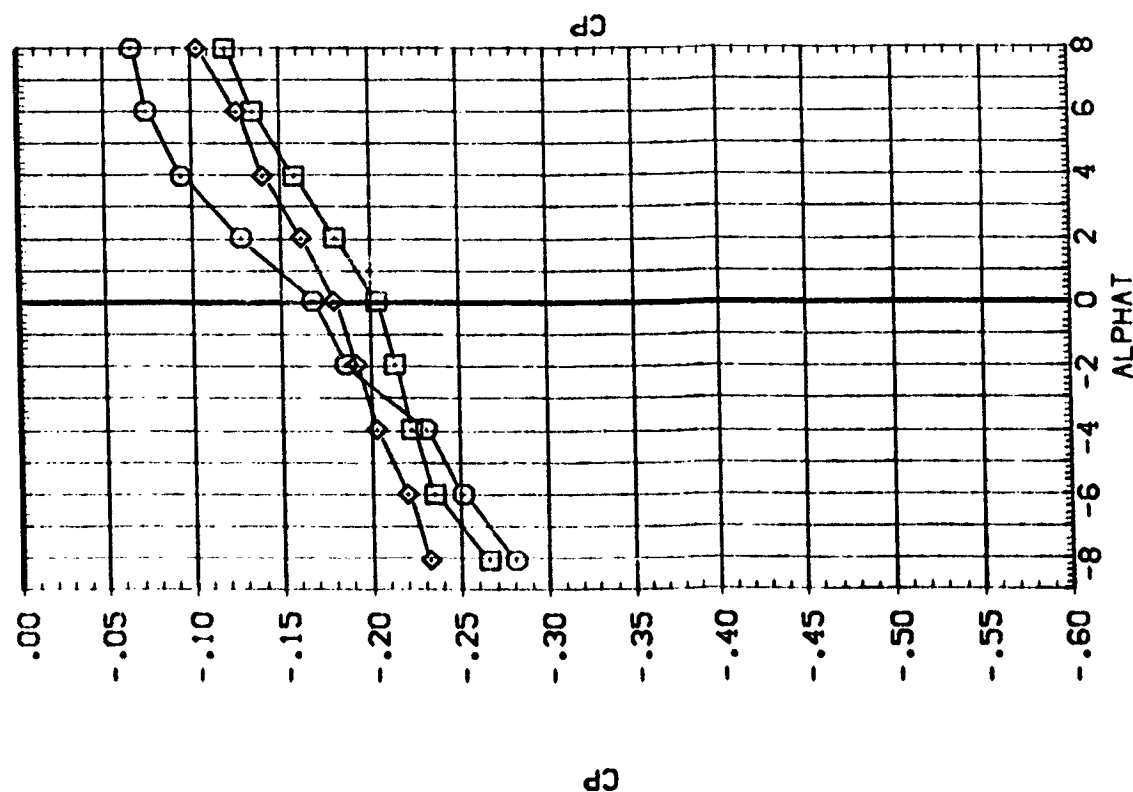
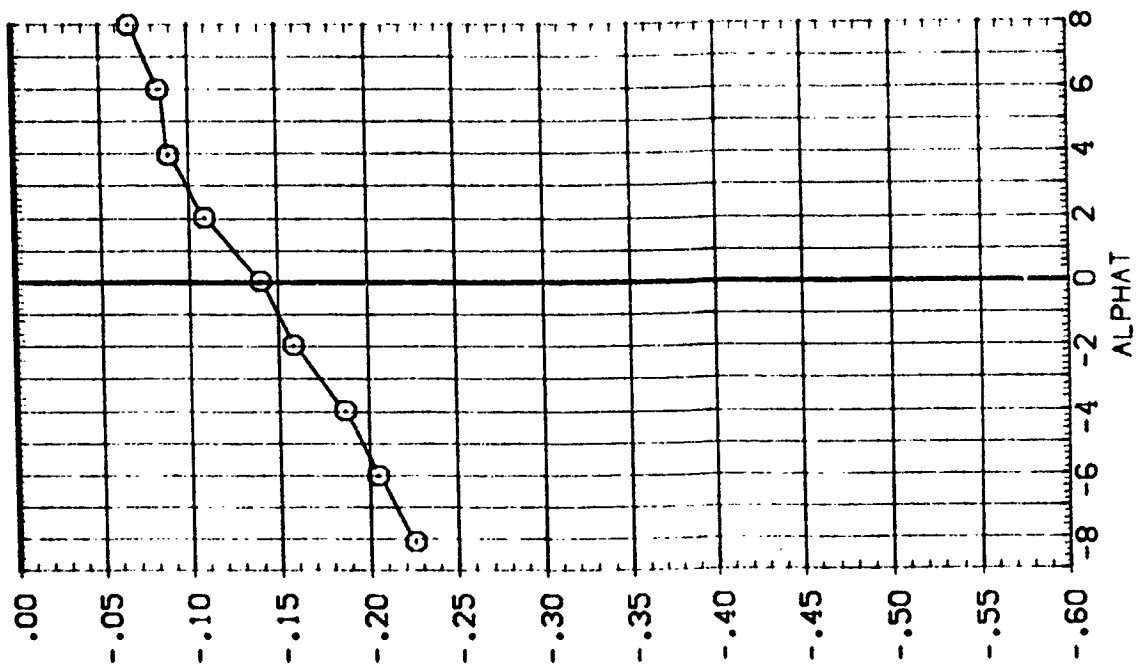
SYNCH.	0.000	X/L	0.977	MACH	1.102	PARAMETRIC VALUES			
	90.000		1.000			BETAT	.000	ORBITC	.500
	180.000					RUDER	.000	ELEVON	.000
						RUDFLR	.000		





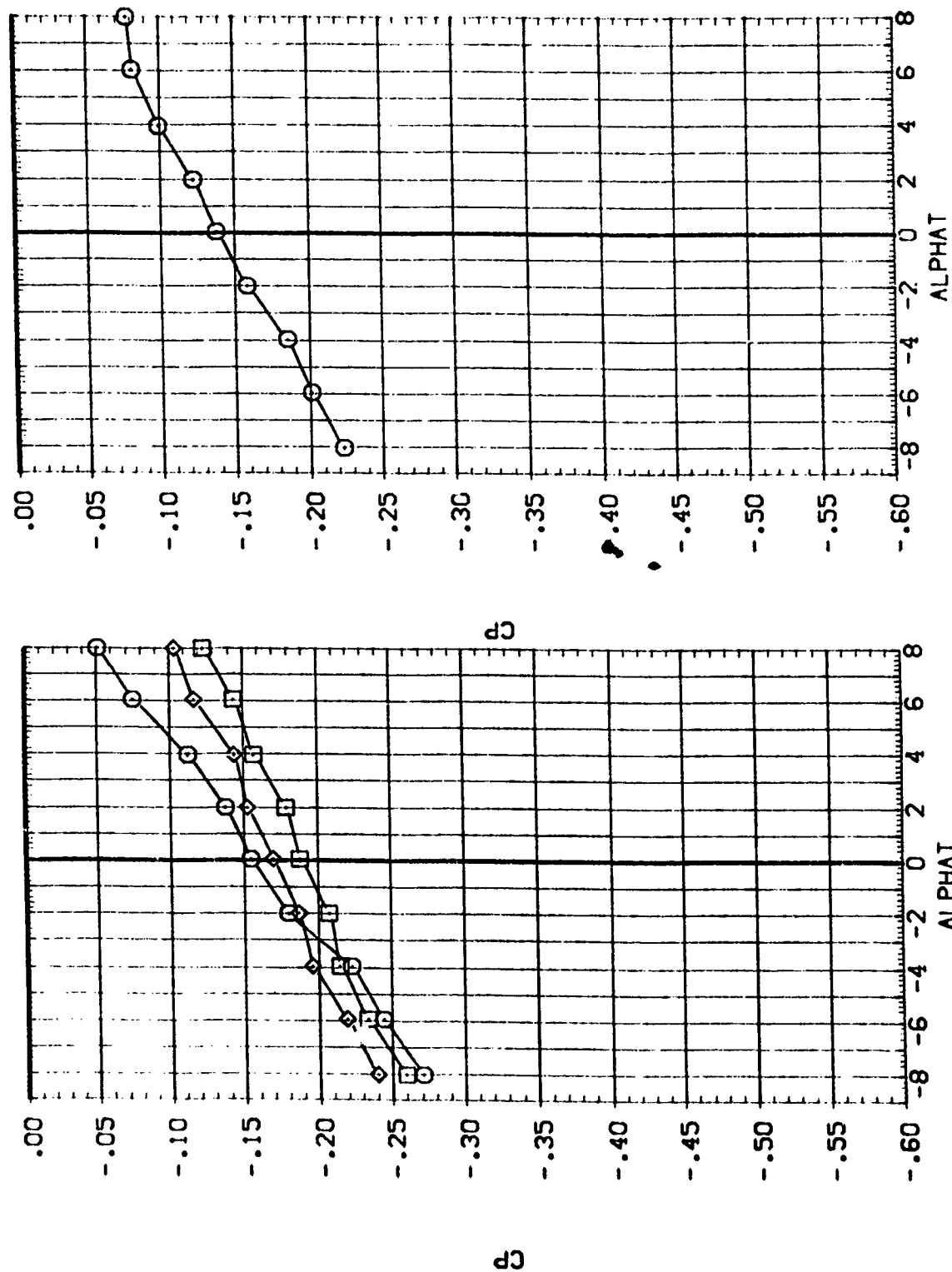
AMES 11-707 1A9 02A + S3 + T9 EXTERNAL TANK BASE (RBMV02)

SYMBOL	PHI	X/LT	MACH	BETAT	ORBINC	ELEVON
○	.000	.977	1.249	.000	.000	.500
□	.90.000	1.000		.000	.000	.000
◇	.180.000			.000	.000	.000



BETAT	.000	CRBINC	.500
RJDDER	.000	ELEVEN	.000
RJDFLR	.000		

SYNCH	PR	X/T	MACH
0000	.000	.977	1.401
0000	92.000	1.000	
0000	182.000		

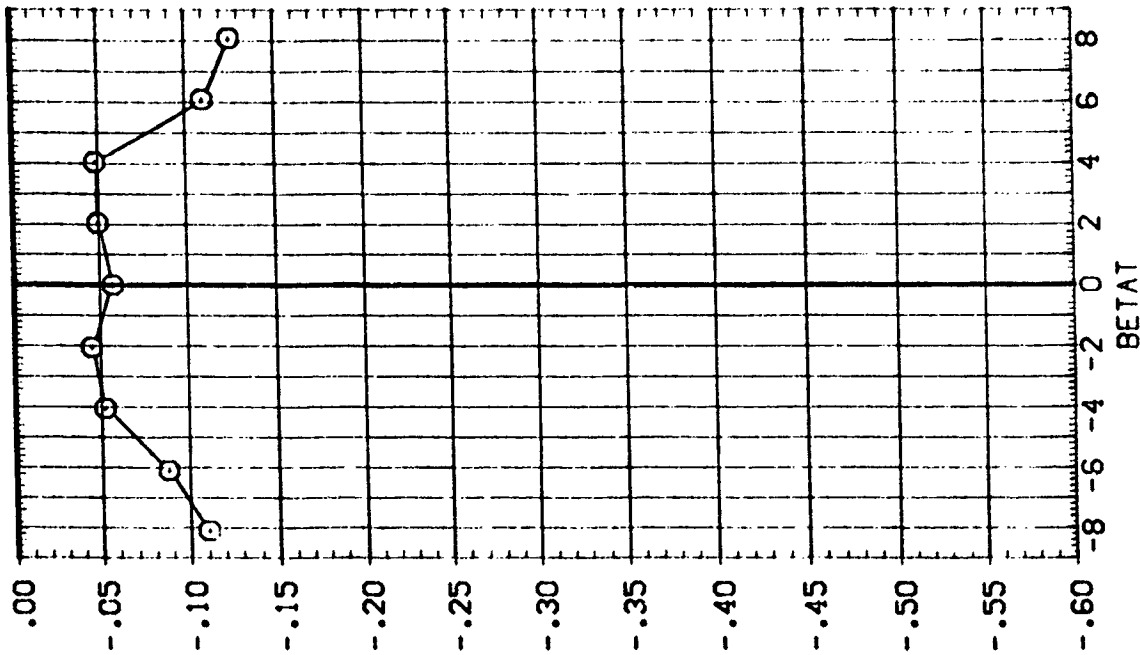
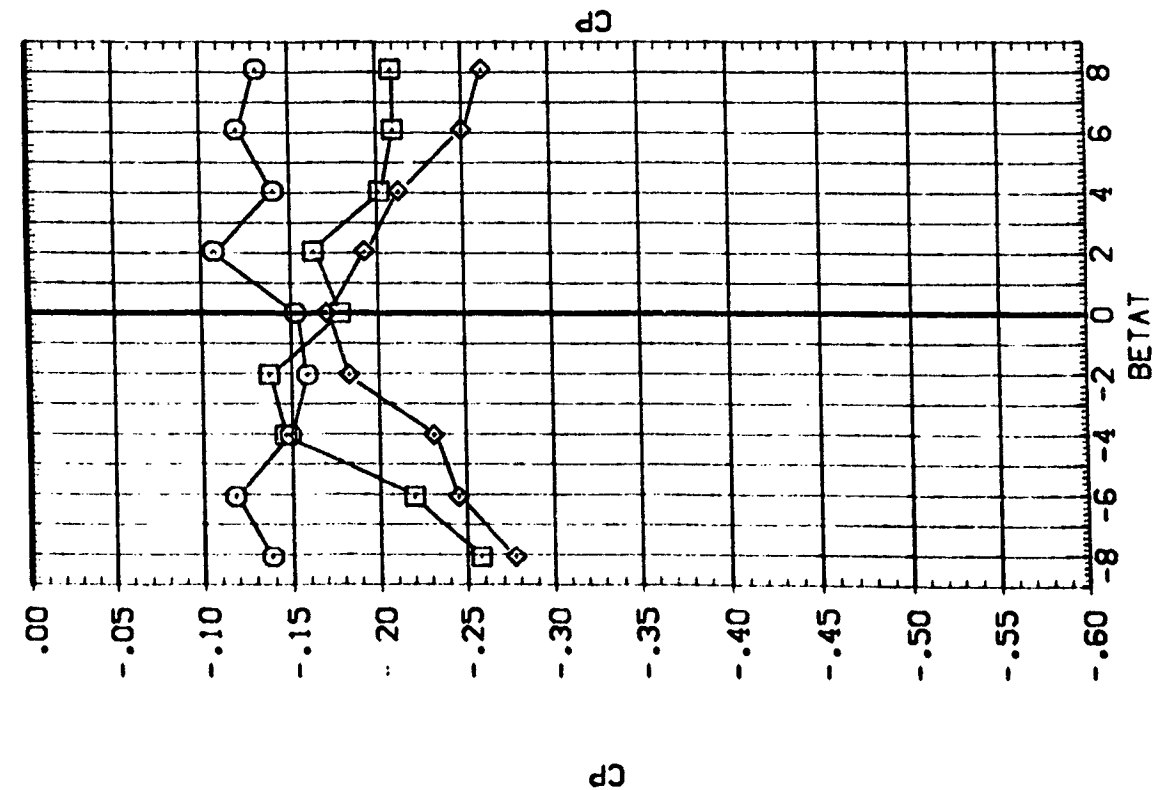




AMES 11-707 1A9 G2A - S3 + T9 EXTERNAL TANK BASE (RBMQ07)

SYMBOL P41 X/LT MACH
 ○ .000 .977 .597
 □ .90.000 1.000
 ◇ .180.000

PARAMETRIC VALUES
 ALPHAT .000 ORBINC .500
 RUDDER .000 ELEVON .000
 RUDDFLR .000





AVES 11-707 1A9 02A + S3 + T9 EXTERNAL TANK BASE (RBMV07)

PARAMETRIC VALUES

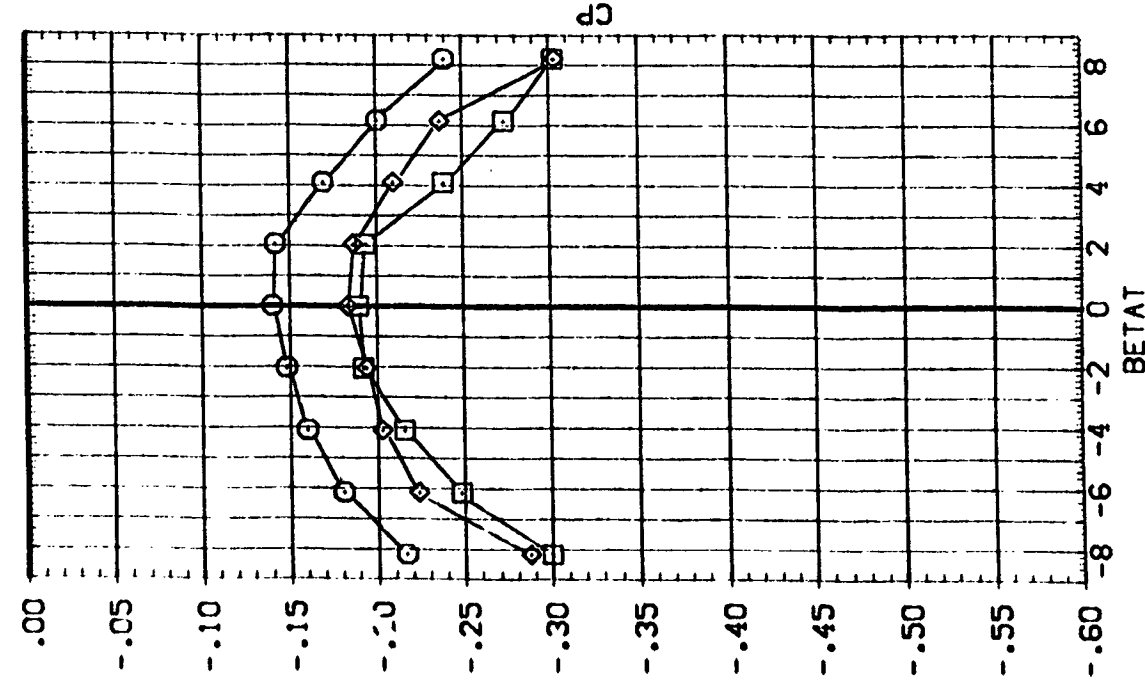
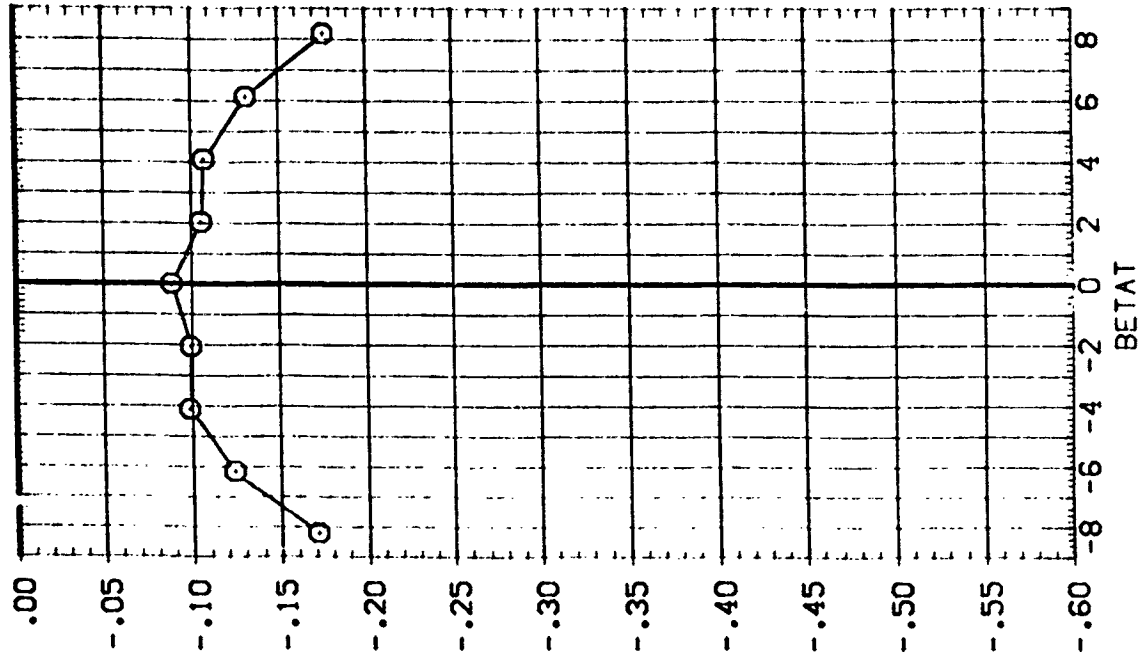
ALPHAT	.000	ORBITC	.500
RUDDER	.000	ELEVON	.000
RUDFLR	.000		

SVSC. 0.000 MACH .900

0.000 .977

50.000 1.000

100.000



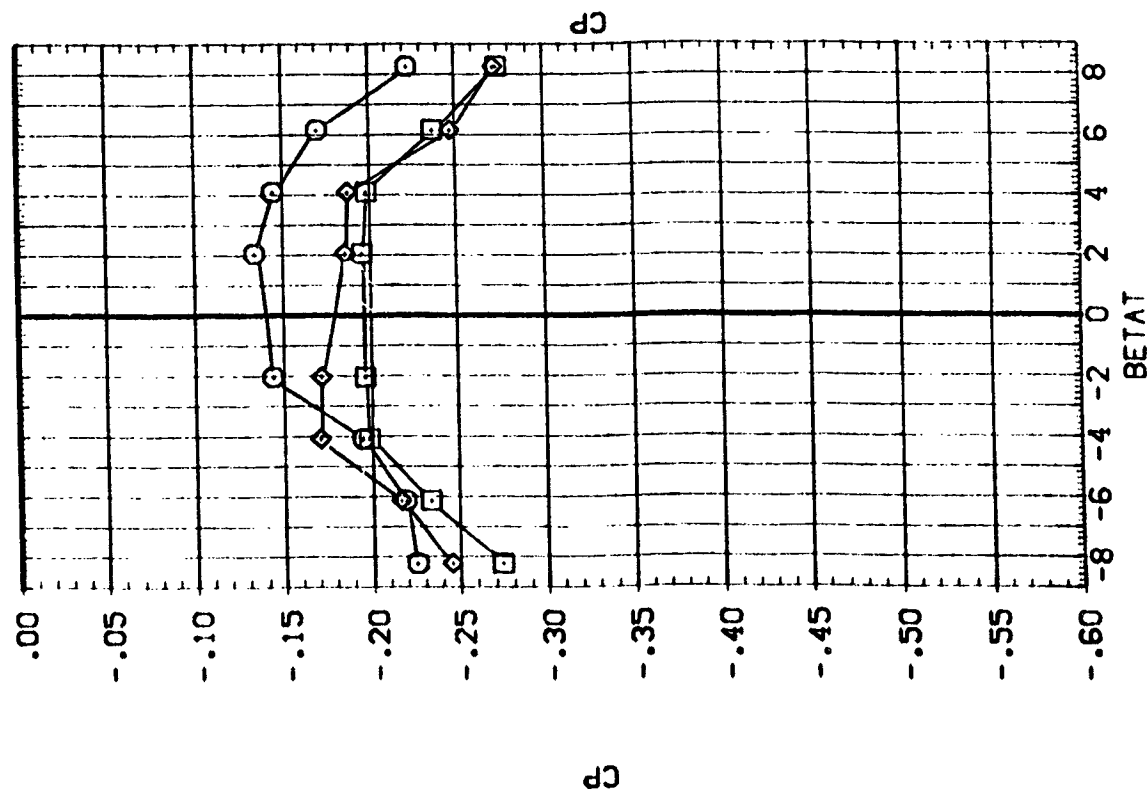
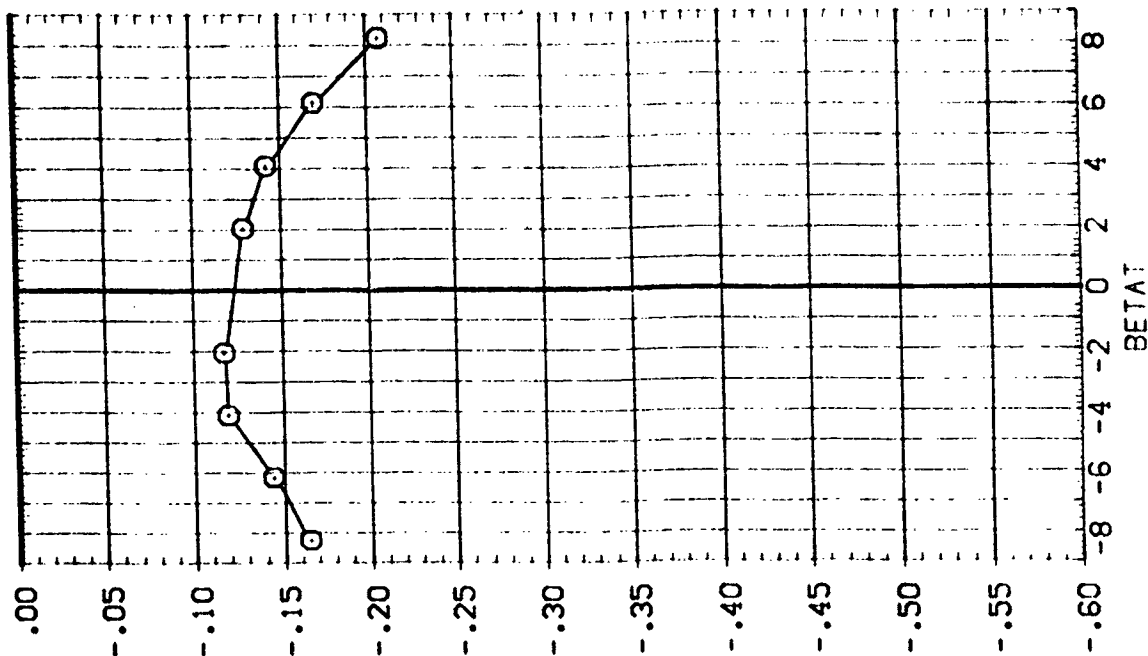
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AVES 11-707 1A9 32A + S3 + 19 EXTERNAL TANK BASE (RBMY07)

100-368531

[illegible]

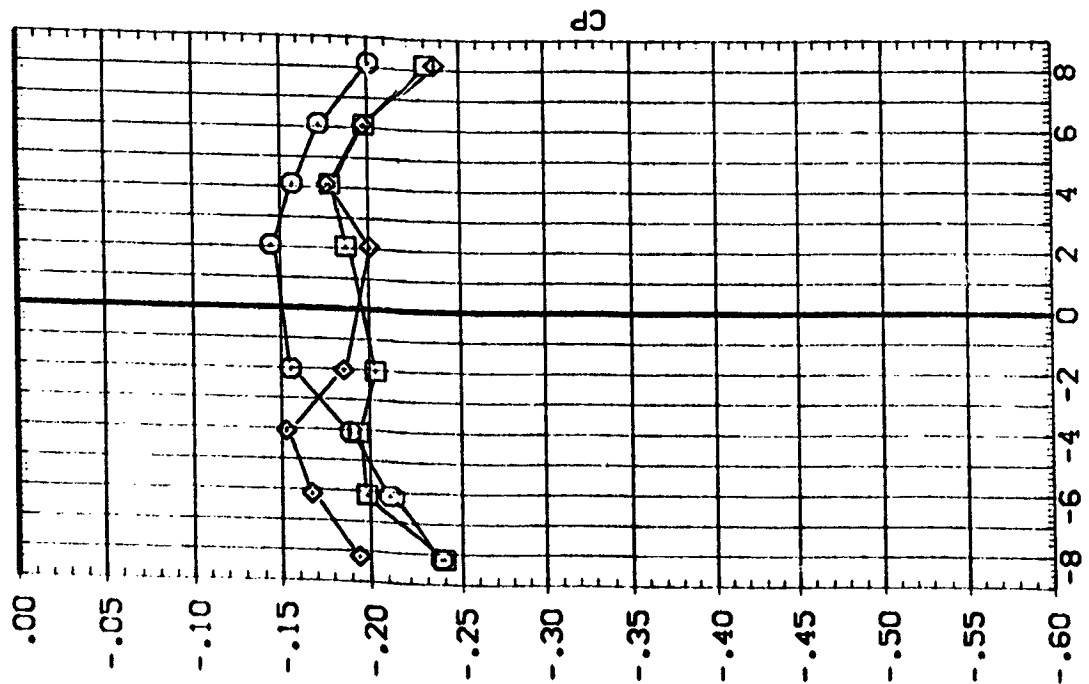
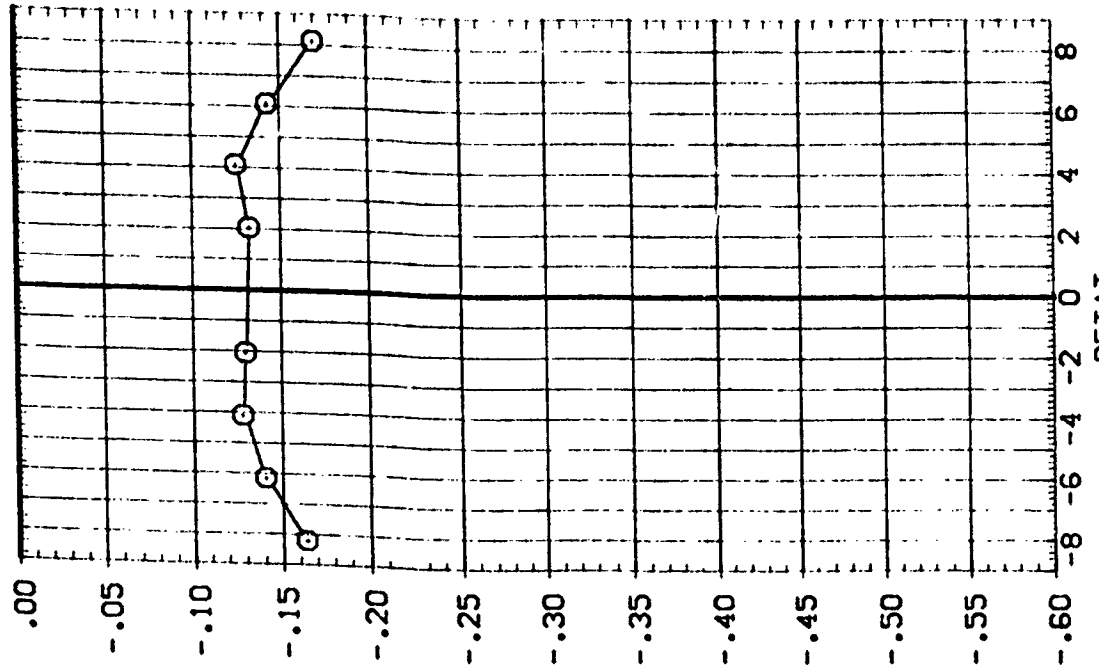
PARAMETRIC VALUES	
ALPHA7	.000
RJDDER	.000
RJDFLR	.000
	.500
	.000



CVTCDNA! TANK RACE PRESSURES

AVES 11-707 :A9 C2A + S3 + T9 EXTERNAL TANK BASE (RBMYC7)

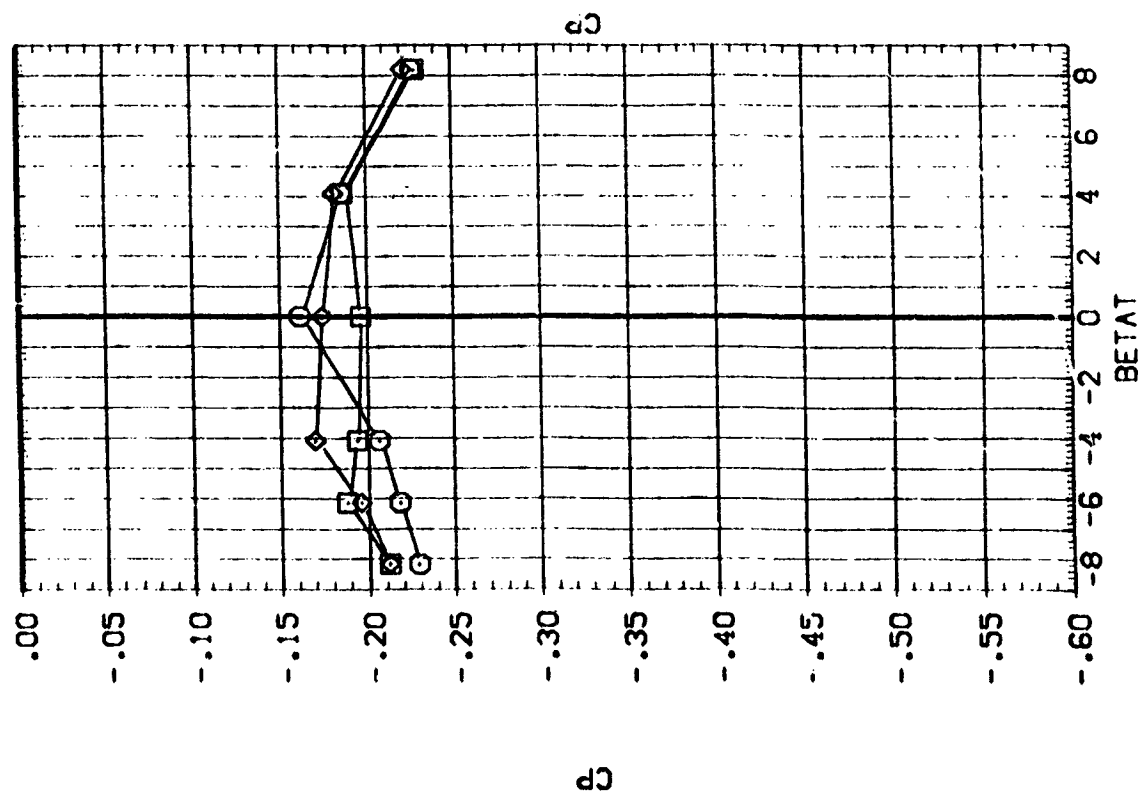
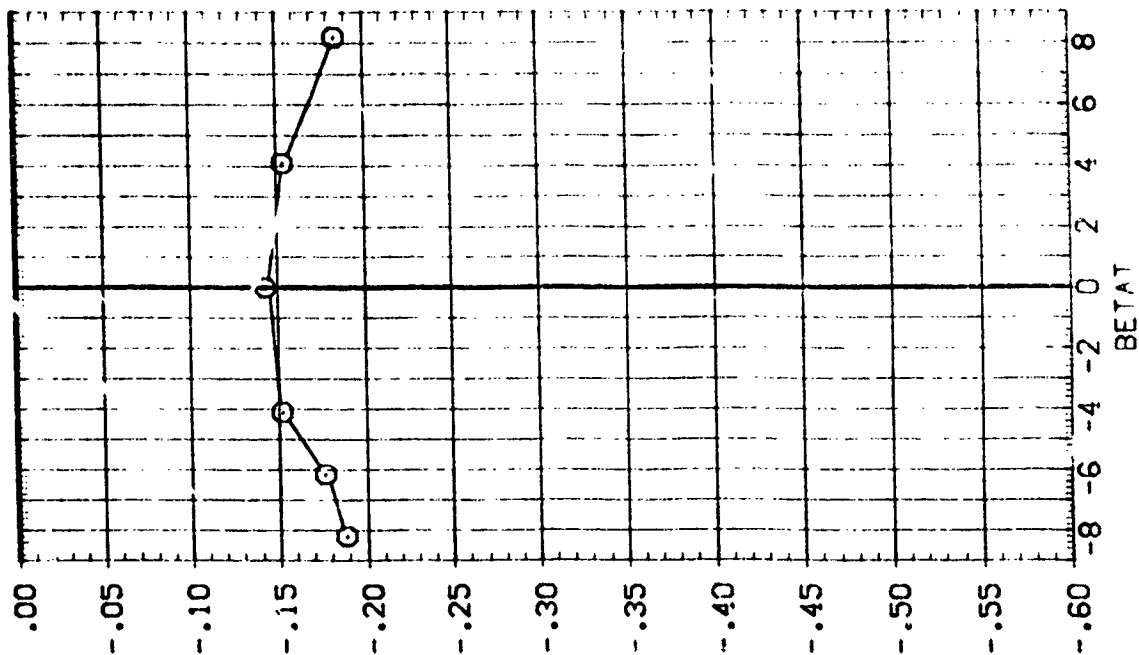
SYMBOL	PARAMETRIC VALUES
ALPHA	ALPHA
ROLL	ROLL
PITCH	PITCH
YAW	YAW
ROLL	ROLL
PITCH	PITCH
YAW	YAW
ROLL	ROLL
PITCH	PITCH
YAW	YAW



==

AVES : -707 1A9 02A - S3 + T9 EXTERNAL TANK BASE (RBMVC7)

SYMB	ALPHAT	PARAMETRIC VALUES
01	RUDER	ALPHAT
02	RUDFLR	RUDER
03		RUDFLR
04		ALPHAT
05		RUDER
06		RUDFLR
07		ALPHAT
08		RUDER
09		RUDFLR
10		ALPHAT
11		RUDER
12		RUDFLR
13		ALPHAT
14		RUDER
15		RUDFLR
16		ALPHAT
17		RUDER
18		RUDFLR
19		ALPHAT
20		RUDER
21		RUDFLR
22		ALPHAT
23		RUDER
24		RUDFLR
25		ALPHAT
26		RUDER
27		RUDFLR
28		ALPHAT
29		RUDER
30		RUDFLR
31		ALPHAT
32		RUDER
33		RUDFLR
34		ALPHAT
35		RUDER
36		RUDFLR
37		ALPHAT
38		RUDER
39		RUDFLR
40		ALPHAT
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91		ALPHAT
92		RUDER
93		RUDFLR
94		ALPHAT
95		RUDER
96		RUDFLR
97		ALPHAT
98		RUDER
99		RUDFLR
100		ALPHAT



EXTERNAL TANK BASE PRESSURES